

***Navajo Nation –Chaco River Watershed –
Preliminary Surface Water Quality
Assessment Report (Integrated 305(b)
Report and 303(d) Listing)***



(Photograph of Chaco River on March 5, 2010)

Prepared by:

Navajo Nation Environmental Protection Agency
Water Quality Program
Post Office Box 339
Window Rock, Arizona 86515
(928) 871-7690

February 8, 2016

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1.0 Background and Purpose

The objective of the United States Clean Water Act (USCWA) is to "*restore and maintain* the chemical, physical, and biological integrity of the Nation's Waters" (USGPO, 1988). In order to meet this objective, and exert its sovereign authority to protect its water resources, the Navajo Nation codified the Navajo Nation Clean Water Act (NNCWA 1999) in July 1999. The importance of water to the Navajo Nation is clearly demonstrated by the adoption of the NNCWA, with the Navajo Nation being only one of a few tribes or states to adopt a clean water act. The NNCWA provides the legislative authority to allow the Navajo Nation to fulfill the USCWA requirements.

In order to *restore and maintain* the chemical, physical, and biological integrity of the Nation's Water, states and federally recognized tribes adopt water quality standards which protect the uses of the Nation's water bodies. Water quality standards are narrative and numeric criteria used as benchmarks to determine if a designated use for a water body is being attained. NNCWA Section 103(a)(2)(A) provides for "the establishment of water quality standards to protect fish and wildlife and the domestic, cultural, agricultural and recreational uses of the waters of the Navajo Nation." This is consistent with the "fishable and swimmable goal" set forth in USCWA Sections 101(a)(2) and 303(c)(2). NNCWA Sections 201(b) and (c) requires that designated uses be established for public water supplies, the protection and propagation of fish and wildlife, recreational purposes, agricultural (including livestock watering), industrial, cultural, and other uses, and to establish criteria to protect the designated uses.

The Navajo Nation first codified the 1999 Navajo Nation Water Quality Standards (1999 NNWQS) in July 1999 (NNEPA 1999). On January 20, 2006 the US Environmental Protection Agency (USEPA) approved the Navajo Nation's application to administer the Water Quality Standards and Certification Programs under the federal Clean Water Act's Sections 303 and 401. On March 26, 2009, the USEPA approved the 2007 Navajo Nation Surface Water Quality Standards (2007 NNSWQS) (NNEPA 2008). Revisions to the 2007 NNSWQS have been made and are contained within the draft 2015 NNSWQS (NNEPA 2015). The draft 2015 NNSWQS are awaiting public review and comment.

The Navajo Environmental Protection National Pollutant Discharge Elimination System / Water Quality Program (NNEPA WQP) is responsible for implementing the requirements of the USCWA and the NNCWA within the Navajo Nation.

This report is intended to fulfill USCWA Section 305(b) reporting requirements, USCWA Section 303(d) listing requirements, USEPA's USCWA Section 106 Tribal Guidance, Chapter 8 and Appendix A, assessment reporting requirements, and FY 2015 National Water Program Guidance Measures WQ-SP14b.N11. It also fulfills assessment reporting requirements in the Fiscal Year 2015 Work Plan.

The purpose of this report is to assess Chaco River watershed surface water quality data obtained by the NNEPA WQP by:

1. Presenting the surface water quality data;
2. Comparing the surface water quality data to the latest version of the NNSWQS to see if standards are being met; and
3. Determine if uses designated for Chaco River watershed surface waters are being supported using the methods described in the February 20, 2008 NNEPA document entitled: "Guidance for Assessing the Quality of Navajo Nation Surface Waters to Determine Impairment" (Integrated 305(b) Reporting and 303(d) Listing) (NNEPA Impairment Guidance);

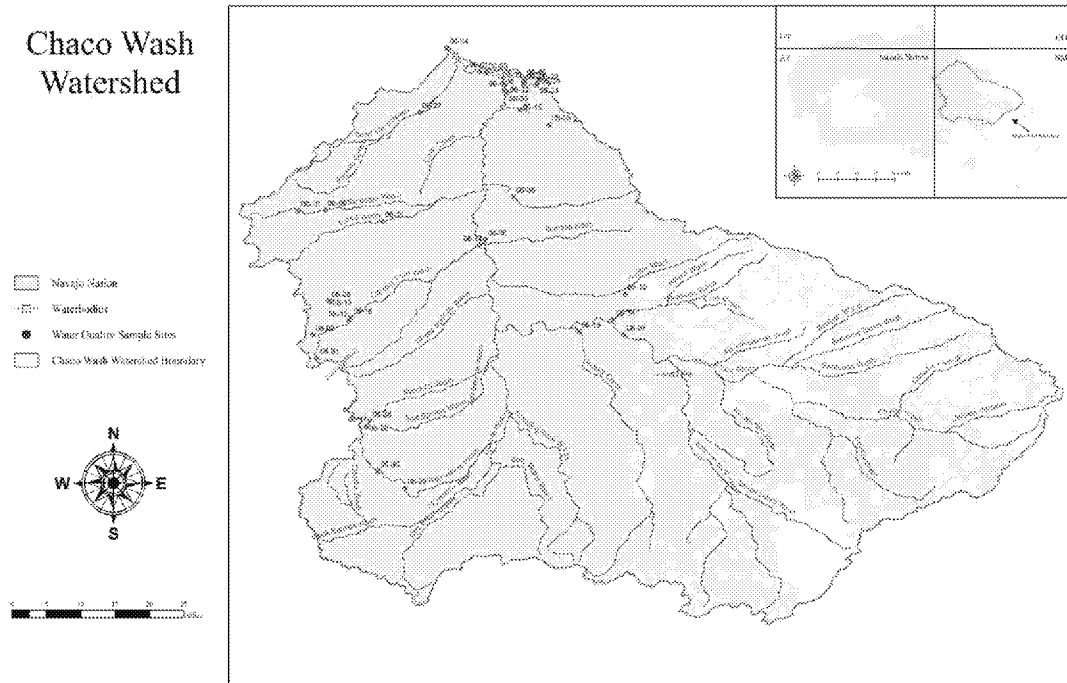
The Navajo Nation Chaco River Watershed Preliminary Surface Water Quality Assessment Report is intended to be a living document, which can be updated to include the latest surface water quality data. The NNEPA WQP welcomes all comments that will assist in revising this report in the future.

2.0 Chaco River Watershed

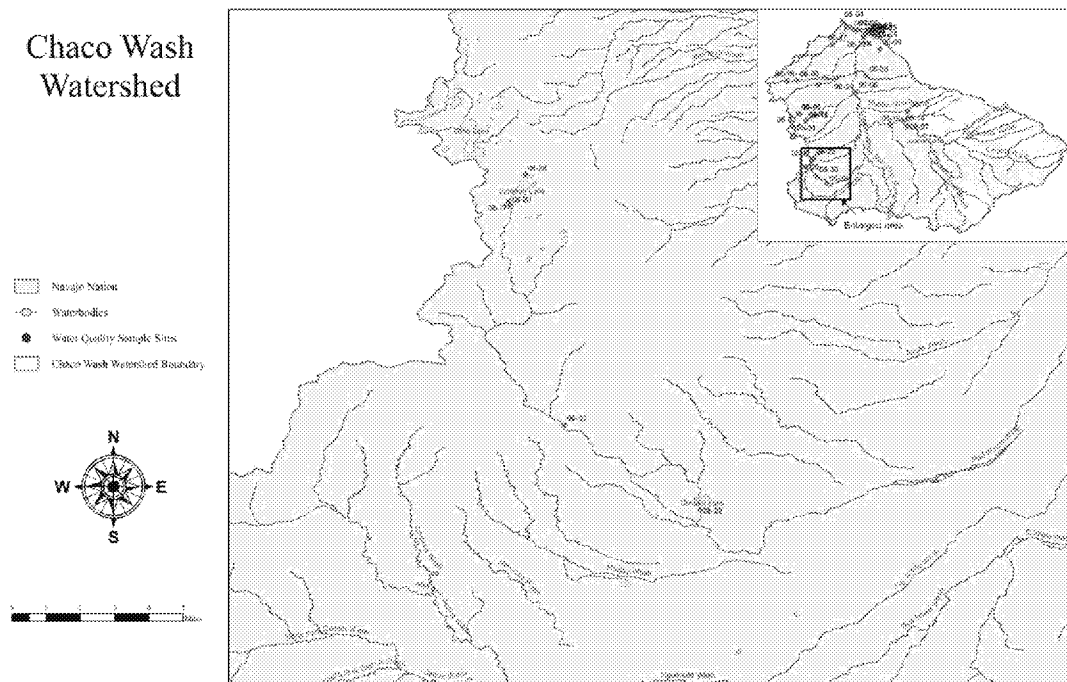
The Chaco River Watershed (Figure 2.0) is located on approximately 4501 square miles within the Navajo Nation. The United States Geological Survey (USGS) 8-digit Hydrologic Unit Code (HUC) for the Chaco River Watershed is 14080106 (USGS 1987). The NNEPA WQP watershed code for the Chaco River Watershed is 06. Detailed geographic locations of watershed sampling sites are provided in additional maps following Figure 2.0. An atlas of water bodies with known lengths and areas assessed by the NNEPA WQP located in the Navajo Nation within this

watershed are listed in Table 2.0. Table 2.0 does not represent all sampled surface waters in the watershed. There are a minimum of 410 miles of streams (rivers, washes, arroyos, or creeks) and a minimum of 1473 acres of lakes or reservoirs in this watershed.





Figure 2.0 –Chaco River Watershed (4501 square miles)

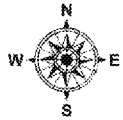


Detailed Geographic Locations of Watershed Sample Sites







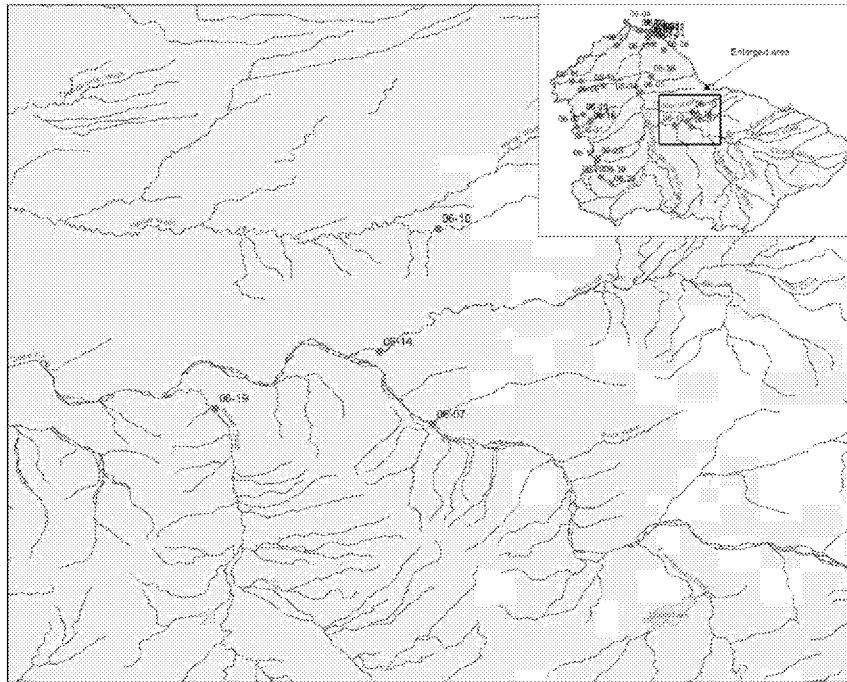
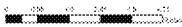
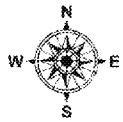
Chaco Wash Watershed

-  Navajo Nation
-  Watershed
-  Water Quality Sample Sites
-  Chaco Wash Watershed Boundary







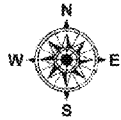
Chaco Wash Watershed

-  Navajo Nation
-  Watershed
-  Water Quality Sample Sites
-  Chaco Wash Watershed Boundary

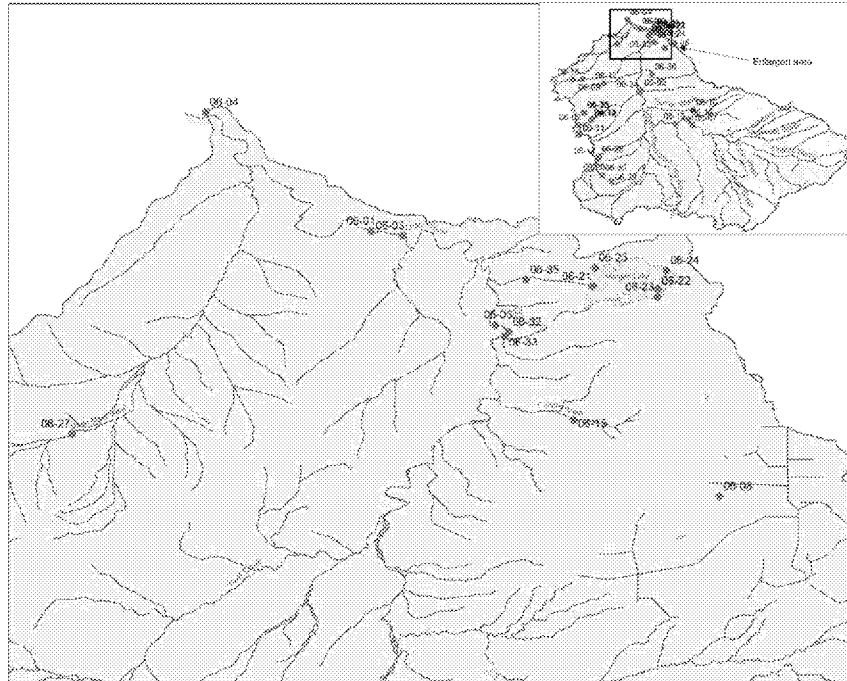


Chaco Wash Watershed





-  Navajo Nation
-  Watershed(s)
-  Water Quality Sample Sites
-  Chaco Wash Watershed Boundary

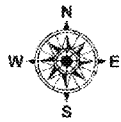


0 1 2 3 4 5 Miles



Chaco Wash Watershed

-  Navajo Nation
-  Watershed(s)
-  Water Quality Sample Sites
-  Chaco Wash Watershed Boundary



0 1 2 3 4 5 Miles

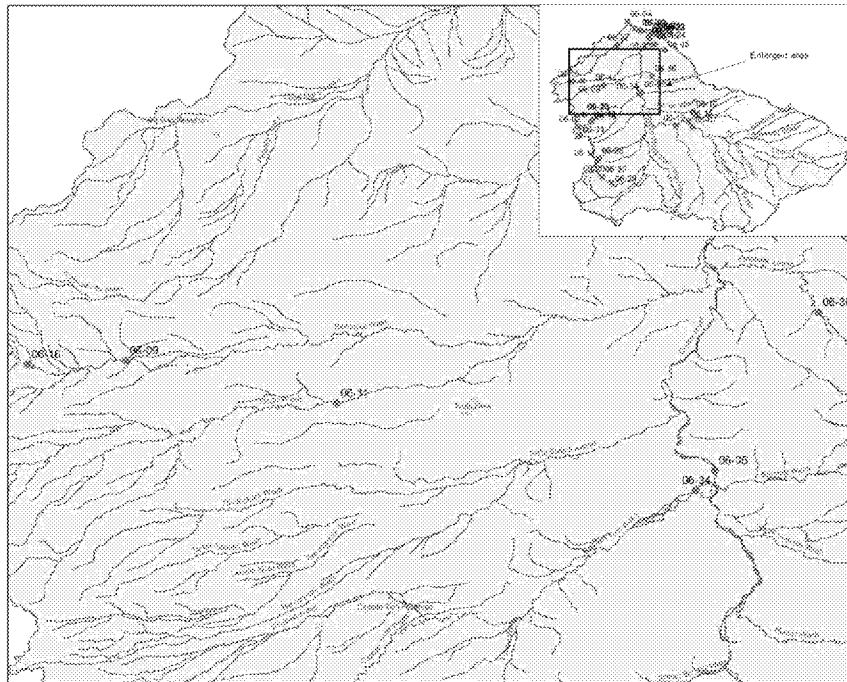


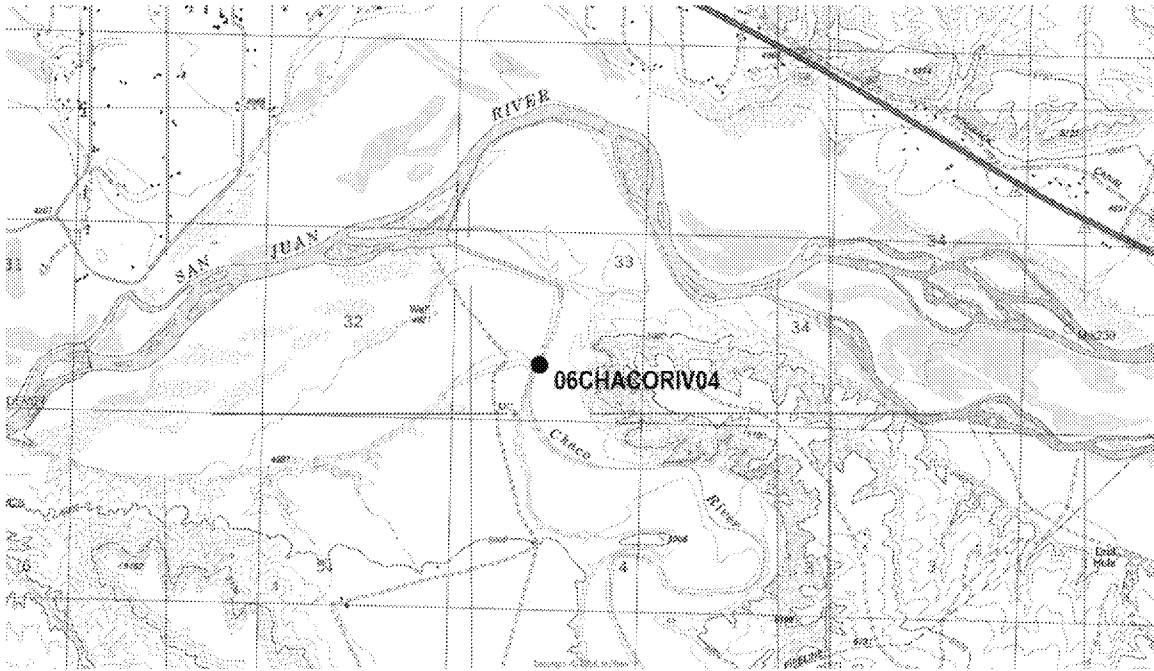
Table 2.0 – Atlas of Assessed Surface Water Bodies With Known Lengths/Areas

(from Navajo Nation Department of Water Resources - March 31, 2009)

Surface Water Body Name Within The Navajo Nation	
Streams (Rivers, Washes, Arroyos, Creeks)	Length (miles)
Chaco River	156 miles
Dead Man's Wash	32.04 miles
Chinde Wash	3.77 miles
Sanostee Wash	39.34 miles
Tocito Wash	20 miles
Captain Tom Wash	34.87 miles
Hunter Wash,	46.26 miles
Indian Creek	48.24 miles
Red Willow Wash	29.92 miles
Total Stream Miles Assessed (minimum)	410.4 miles
Lakes (Lake or Reservoir)	Area (acres)
Berland Lake	8.31 acres
Chuska Lake	83.84 acres
Morgan Lake	1228.26 acres
Whiskey Lake	153.53 acres
Total Lake Acres Assessed (minimum)	1473.94

3.0 Chaco River Watershed Surface Water Quality Data Collection Activities

Monitoring and water quality sampling of the Chaco River Watershed was conducted using professional experience and in accordance with the NNEPA WQP June 1, 2012 “Quality Assurance Plan for Surface Water Data Collection” or previous quality assurance plans. Measurements of physical/ chemical characteristics and stream discharge were made. Samples were obtained and submitted to an analytical laboratory for analyses. Quality Assurance and Quality Control samples were also obtained. Maps and photographs of individual sampling locations (including sites not listed in Table 2.0) are found below:

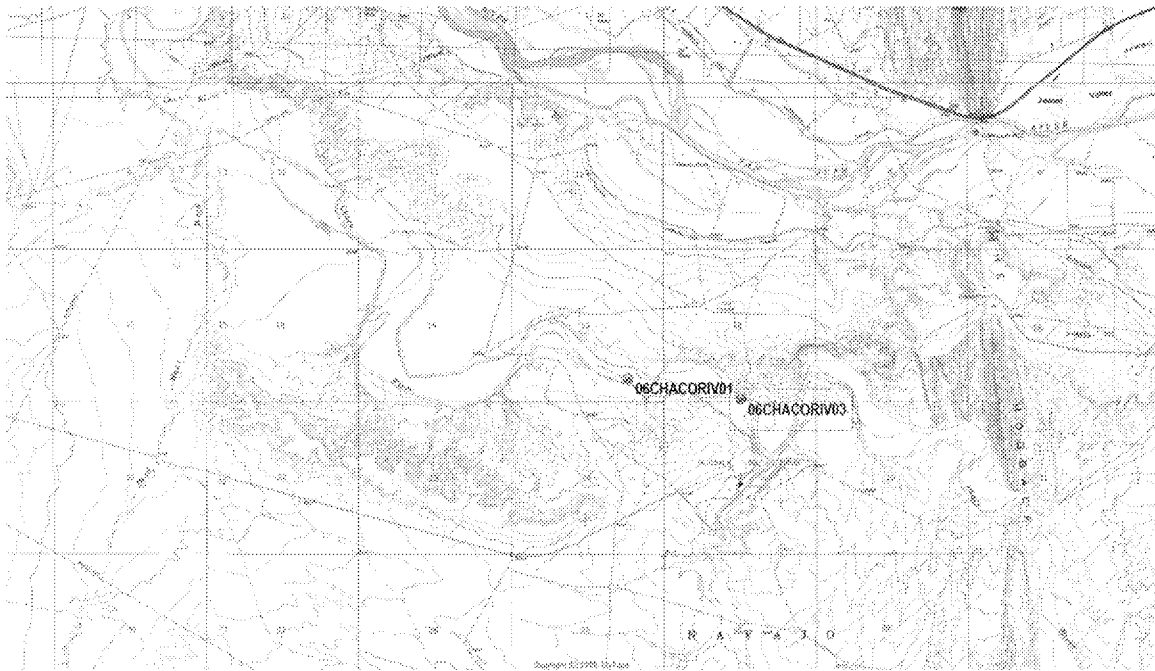
Map 3.1 – Chaco River Sample Site at elevation of 4924 feet.

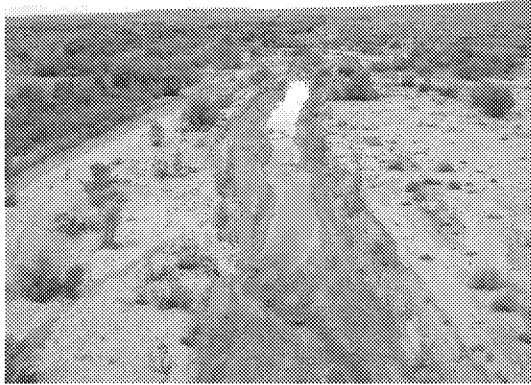
Photographs of Sample Site 06CHACORIV04:

July 14, 2015 – Sample Site



July 23, 2015 – Sample Site

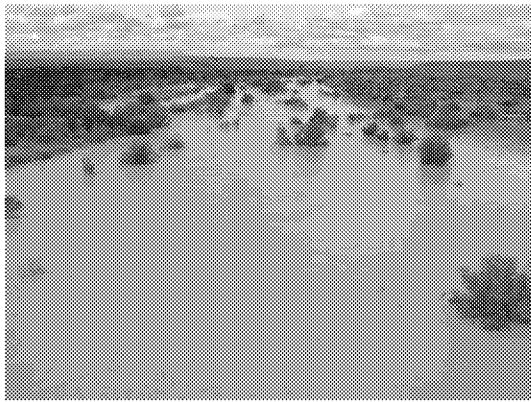
Map 3.2 – Sample Sites at elevations of 4989 and 5001 feet.

Photographs of Sample Site 06CHACORIV01:

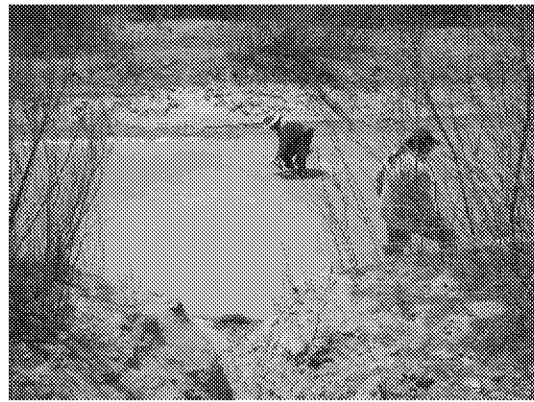
October 2, 2002 – View from Navajo Route N36 Bridge.



June 10, 2009 – Sample Site



September 11, 2002 – View from Navajo Route N36 Bridge.



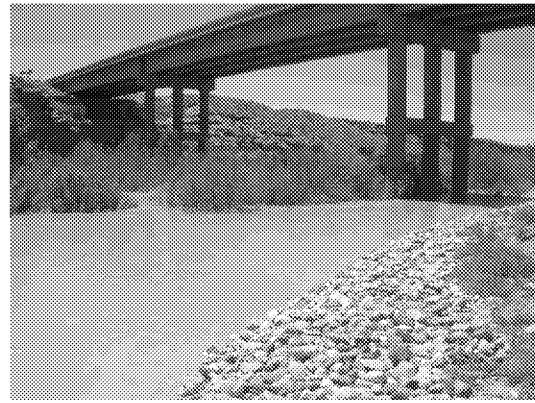
April 22, 2010 – Staff sampling



July 26, 2009 – Staff measuring flow



March 25, 2010 – Sample Site



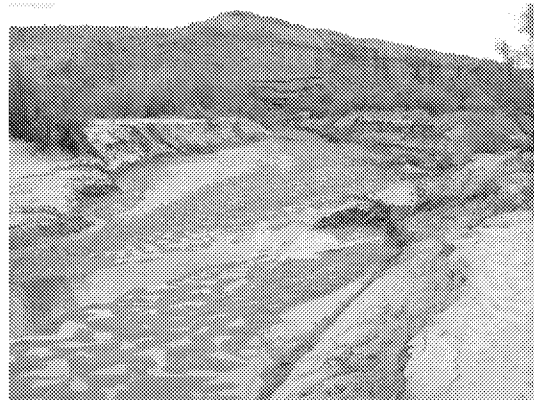
July 28, 2011 – At Navajo Route N36
Bridge.



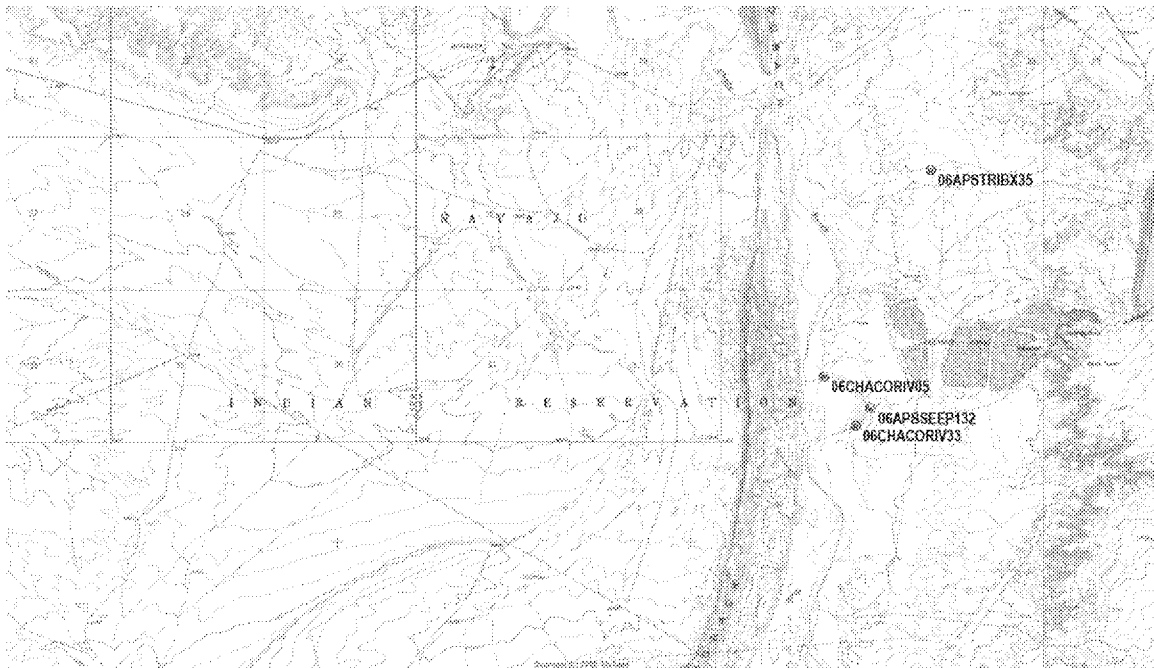
August 31, 2011 – Sample Site

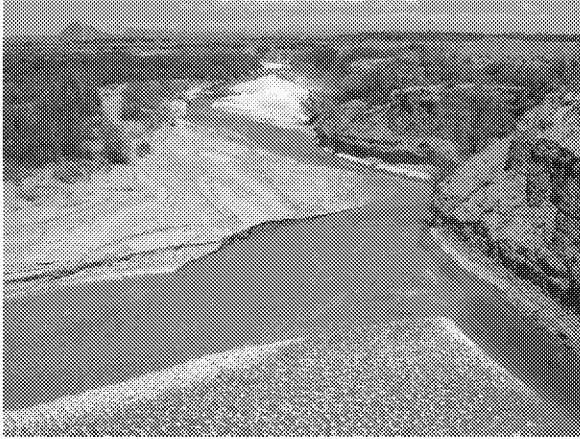
Photographs of Sample Site 06CHACORIV03:

October 2, 2002 – Down gradient from sample site

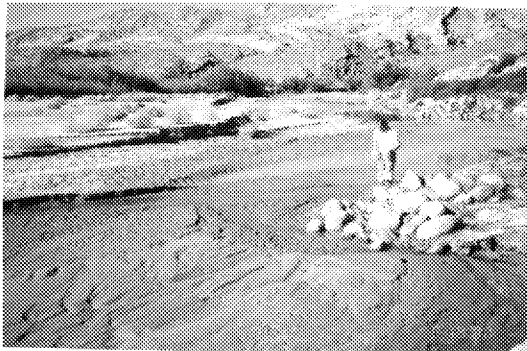


October 2, 2002 – Up gradient from sample site

Map 3.3 – Chaco River and tributary sample Sites at elevations from 5055 to 5111 feet.

Photographs of Sample Site 06APSTRIBX35:

May 7, 2008 – Discharge from Morgan Lake.

Photographs of Sample Site 06CHACORIV05:

September 19, 2000 - Down gradient from sample site



September 19, 2000 - Up gradient from sample site



September 19, 2000 – Staff sampling site

Photographs of Sample Site 06CHACORIV33:

March 25, 2010 – Staff sampling



July 28, 2011 – Staff Sampling



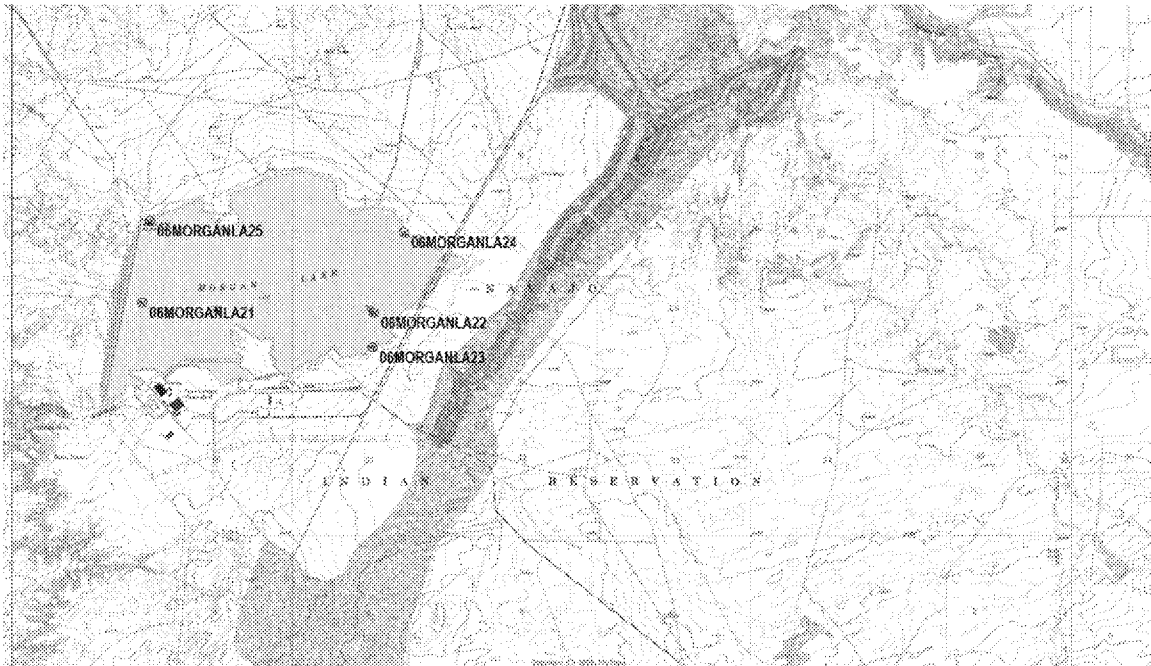
April 22, 2010 – Staff sampling



July 28, 2011 – Flow at site



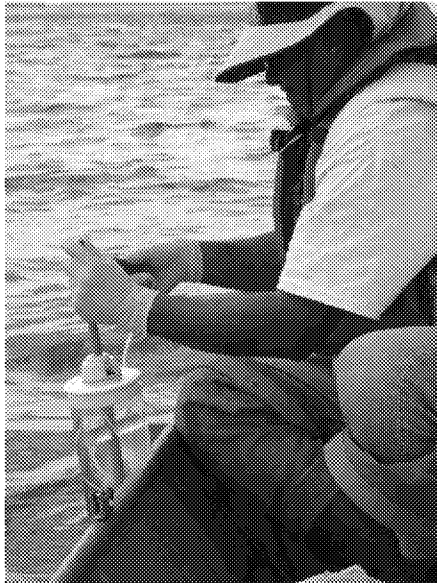
August 31, 2011

Map 3.4 - Morgan Lake Sample Sites at 5324 feet elevation.**Photographs of Sample Site 06MORGANLA21:**

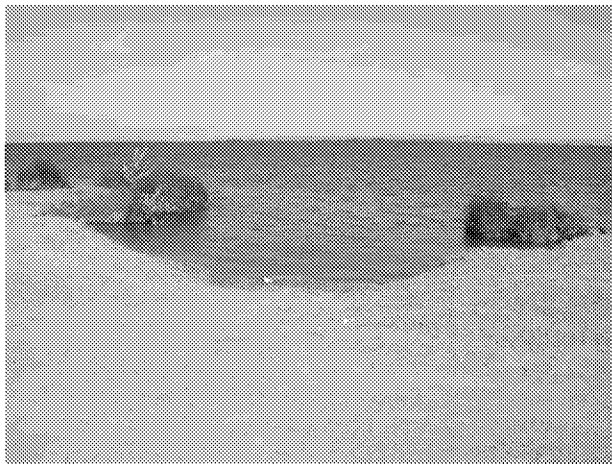
August 21, 2002 – Sample site.



August 24, 2004 –Sample Site

Photographs of Sample Site 06MORGANLA22:

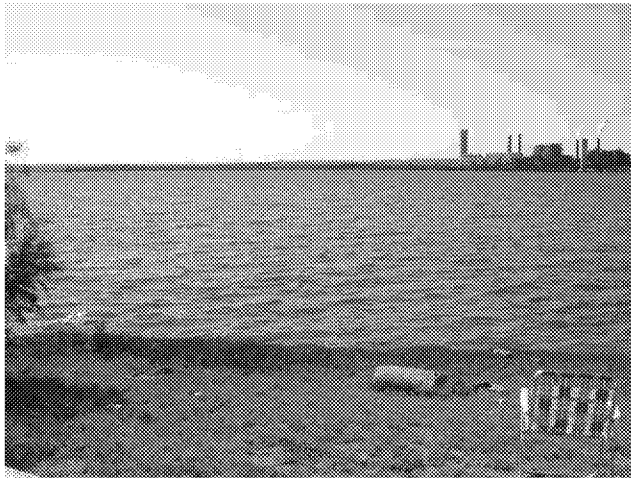
August 21, 2002 – Staff Sampling

Photographs of Sample Site 06MORGANLA23:

September 5, 2002 – Sample site.

Photographs of Sample Site 06MORGANLA24:

September 5, 2002 – Sample site.

Photographs of Sample Site 06MORGANLA25:

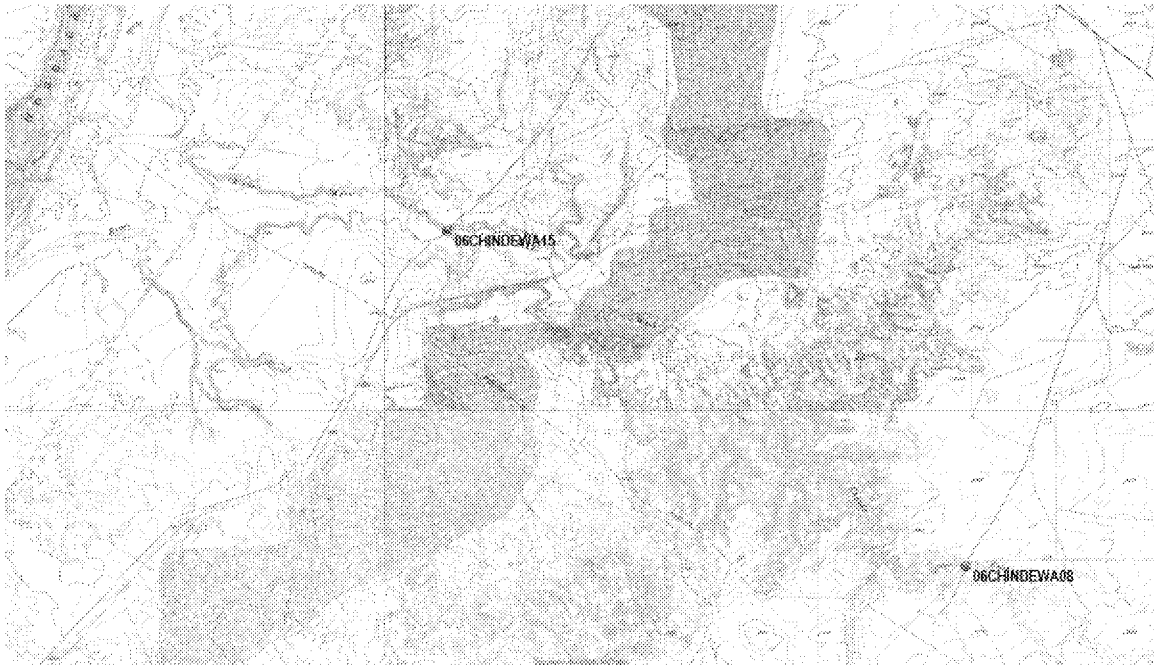
September 5, 2002 – Sample site.

Other Morgan Lake Photographs:

August 6, 2009



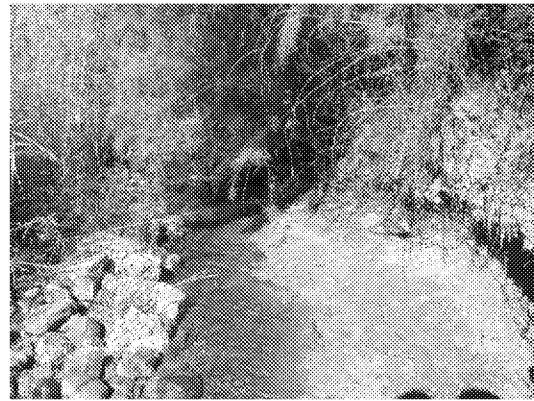
April 16, 2008

Map 3.5 - Chinde Wash Sample Sites at elevations of 5195 and 5556 feet.

Photographs of Sample Site 06CHINDEWA08:



March 15, 2001



September 14, 2010



August 7, 2001



June 21, 2011



April 21, 2010



August 17, 2011



September 1, 2011 – Before NAPI
Discharge



September 1, 2011 – After NAPI Discharge

Photographs of Sample Site 06CHINDEWA15:



March 15, 2001



July 21, 2009



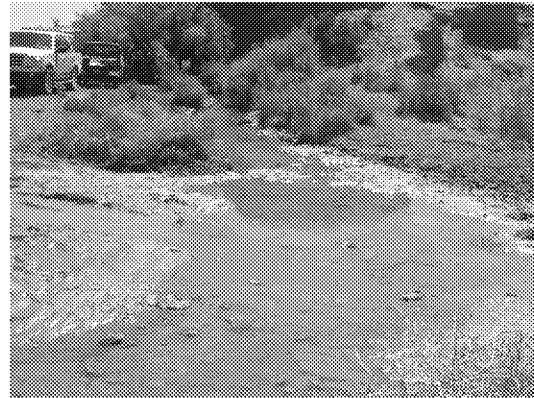
March 25, 2003



March 25, 2010



April 21, 2010



June 21, 2011



August 31, 2010



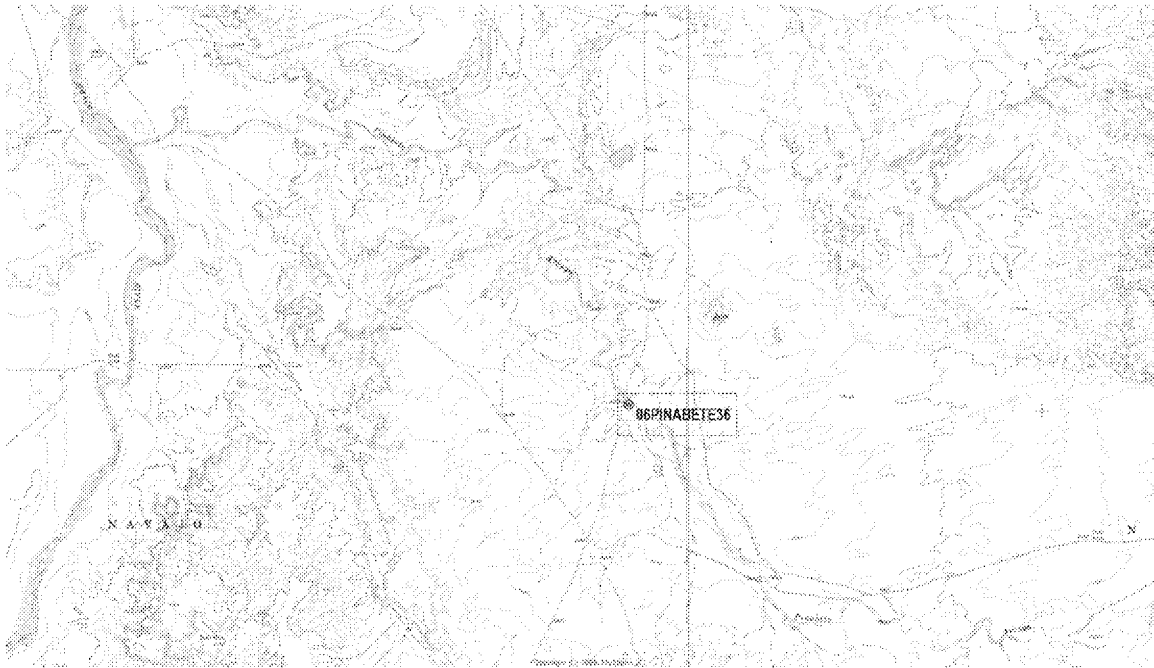
August 17, 2011



September 14, 2010

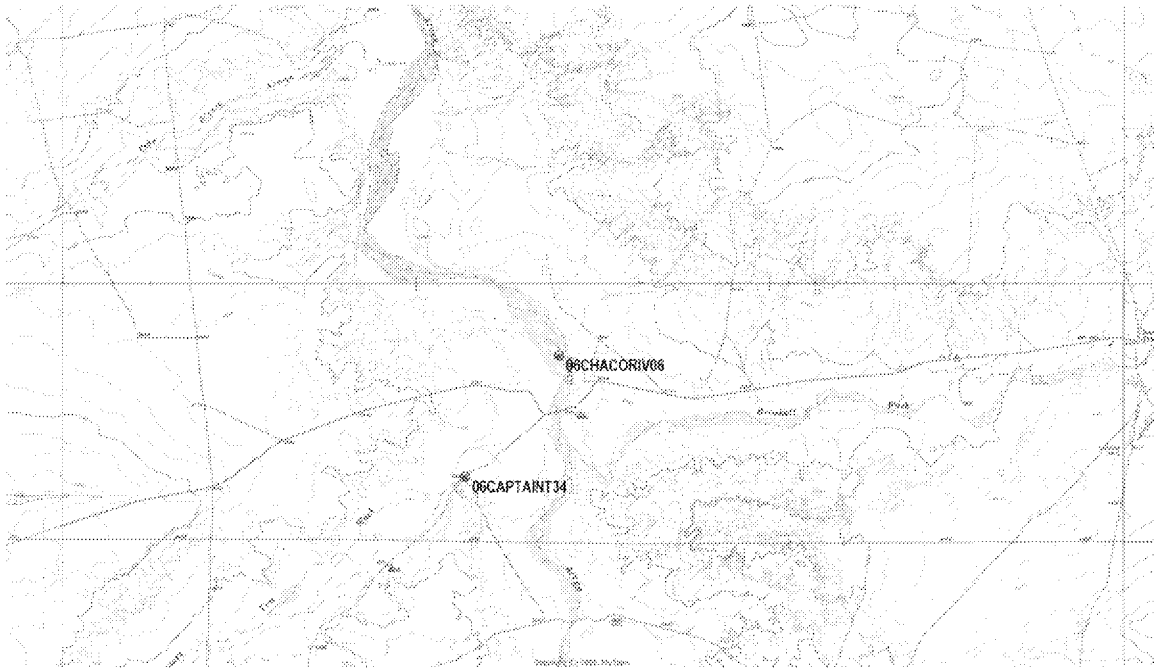


September 1, 2011

Map 3.6 – Pinabete Arroyo Sample Site at elevation of 5370 feet.**Photographs of Sample Site 06PINABETE36:**

August 31, 2010

Map 3.7 – Captain Tom Wash and Chaco River Sample Sites at elevations of 5380 and 5344 feet.



Photographs of Sample Site 06CHACORIV06:



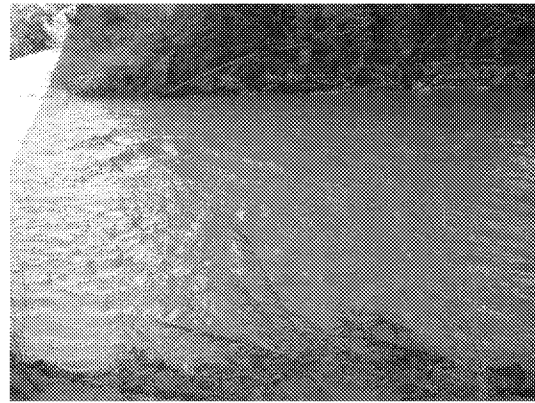
March 25, 2010



April 21, 2010



August 31, 2010



July 28, 2011

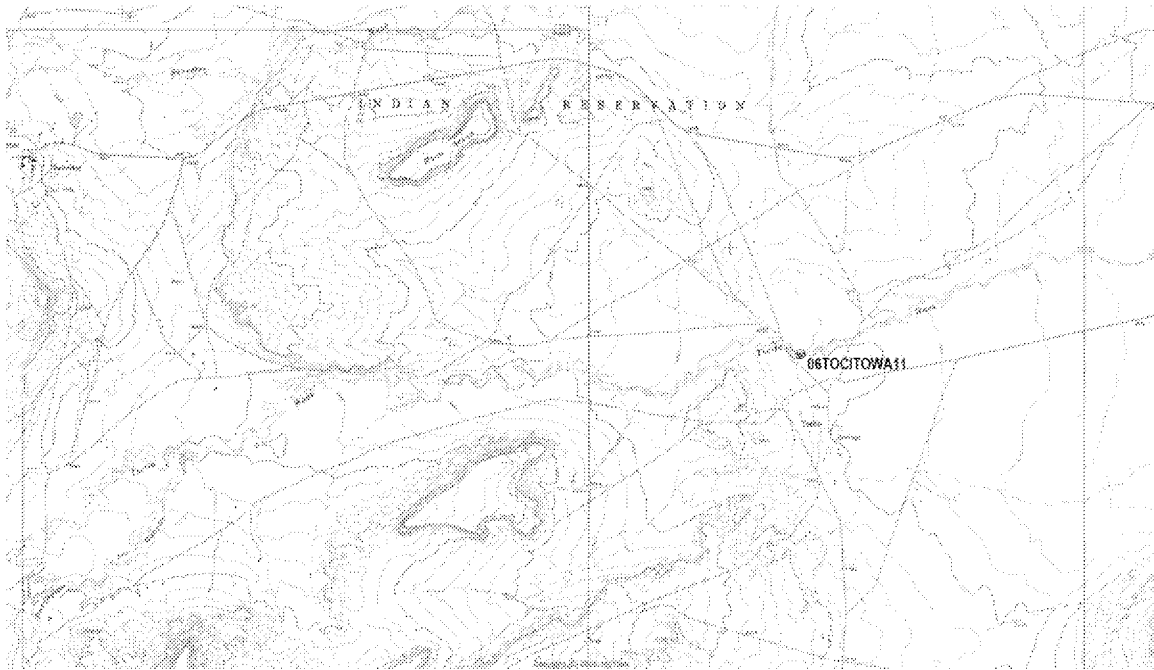


July 28, 2011



August 31, 2011

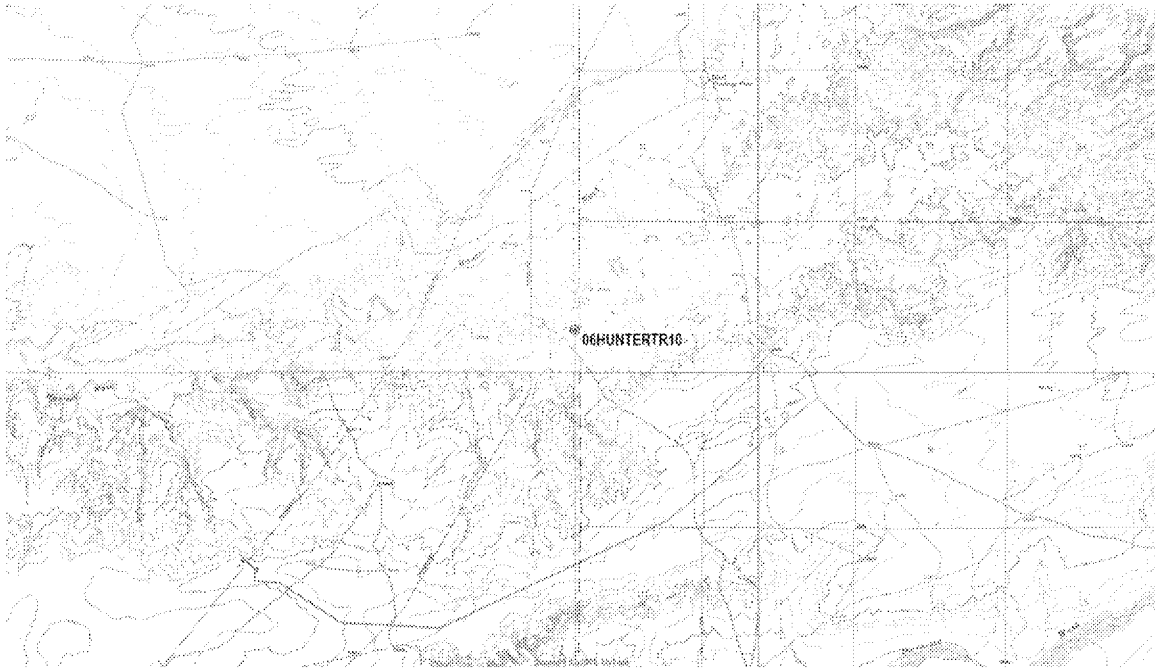
Map 3.8 – Toci Wash Sample Site at elevation of 5700 feet.



Photographs of Sample Site 06TOCITOWA11:



March 7, 2001

Map 3.9 – Hunter Wash Sample Site at 5751 feet elevation.**Photographs of Sample Site 06HUNTERTR10**

March 7, 2001

Map 3.10 – Indian Creek and Chaco River Sample Sites at elevations of 5635 and 5746 feet.**Photographs of Sample Site 06CHACORIV07:**

August 24, 2010

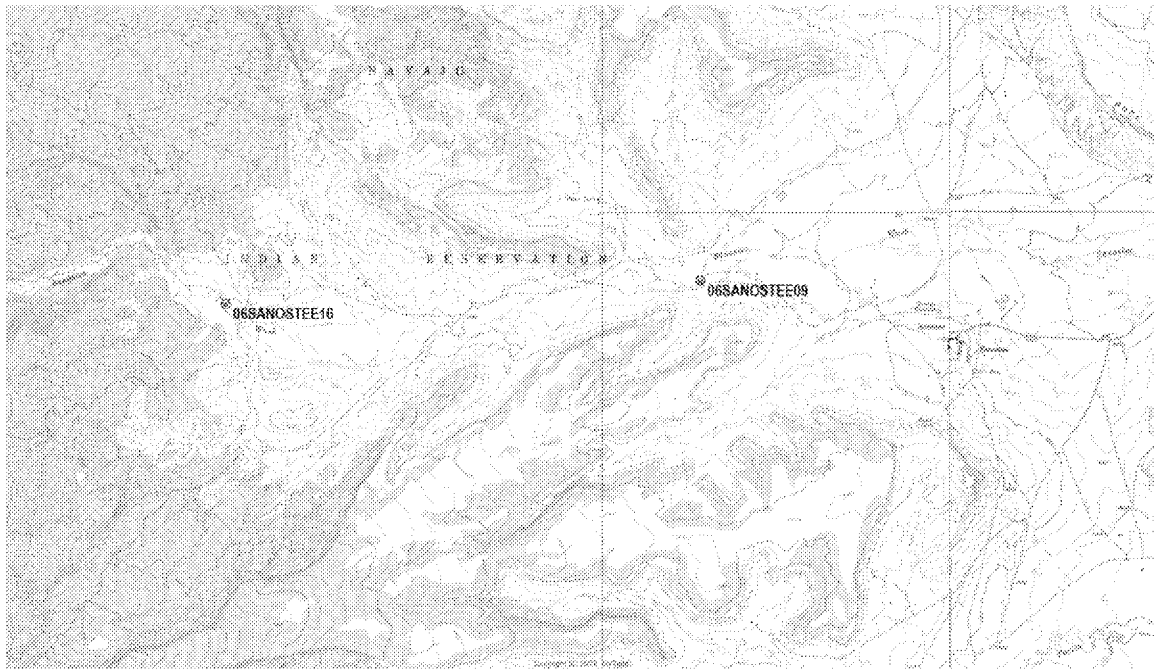


July 26, 2011

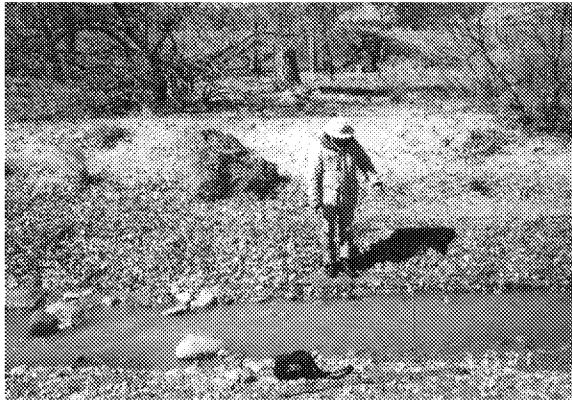


August 30, 2011

Map 3.11 – Sanostee Wash Sample Sites at elevations of 6312 and 6047 feet.



Photographs of Sample Site 06SANOSTEE16:



March 15, 2001



May 14, 2008



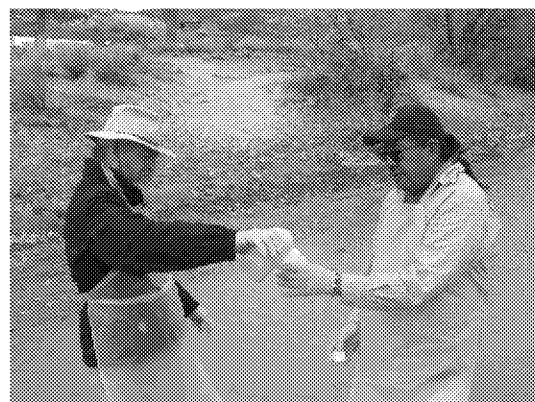
April 1, 2003



June 15, 2009



March 14, 2005



March 23, 2010



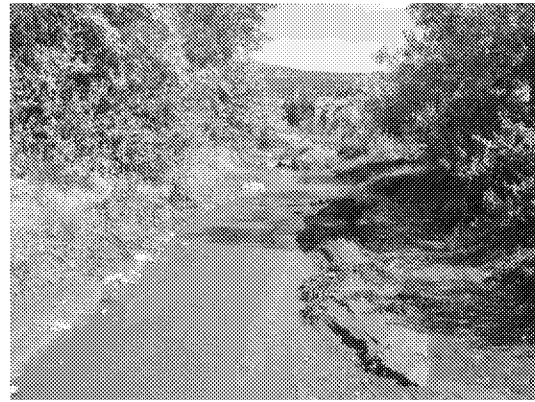
March 23, 2010



May 24, 2011



April 27, 2010

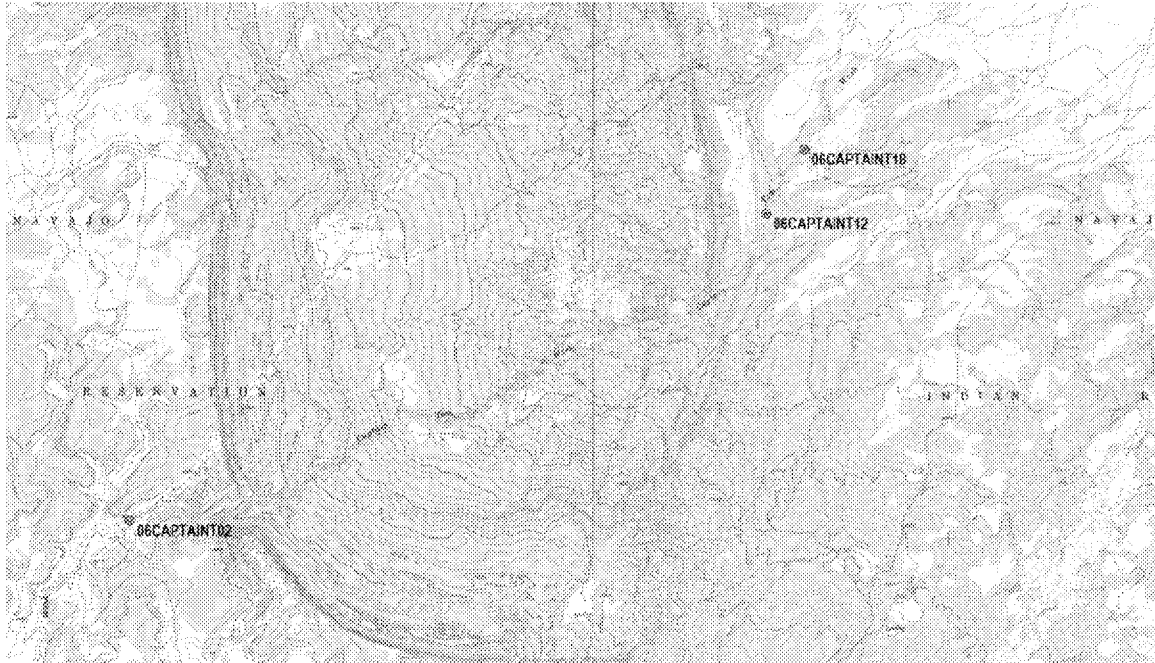


July 11, 2011

Map 3.12 –Toadlena Fish Hatchery Springs Sample Sites at elevations of 6840 and 6788 feet.



Map 3.13 – Captain Tom Wash Sample Sites at elevations of 8715, 6423, and 6334 feet.



Photographs of Sample Site 06CAPTAINT12:



March 29, 2001



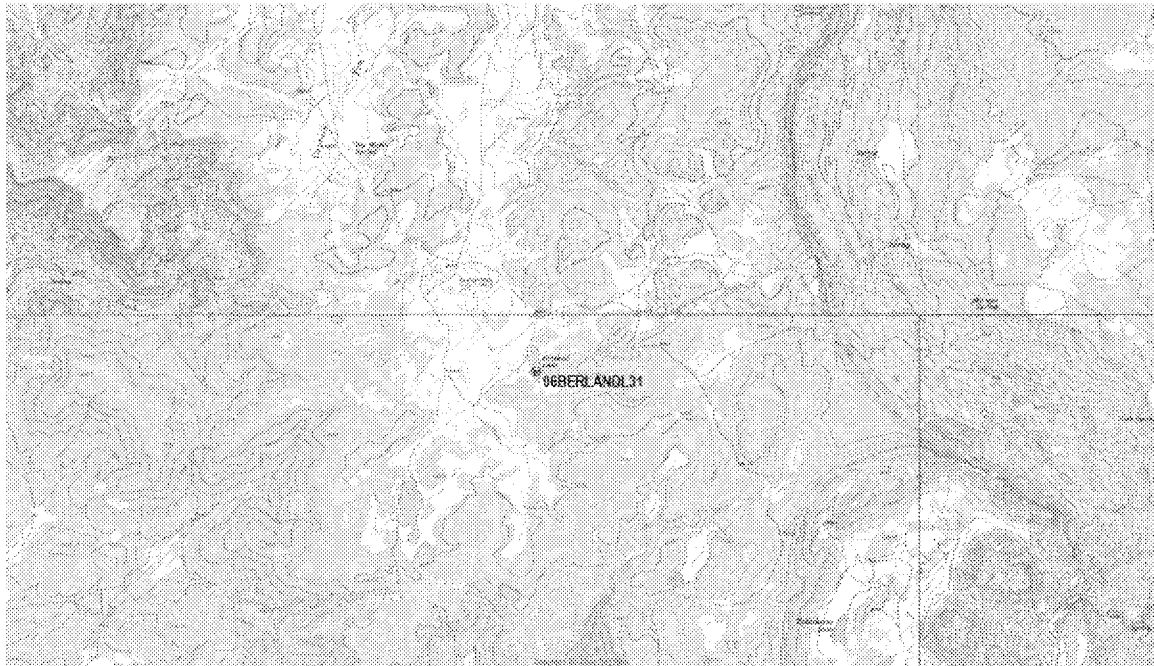
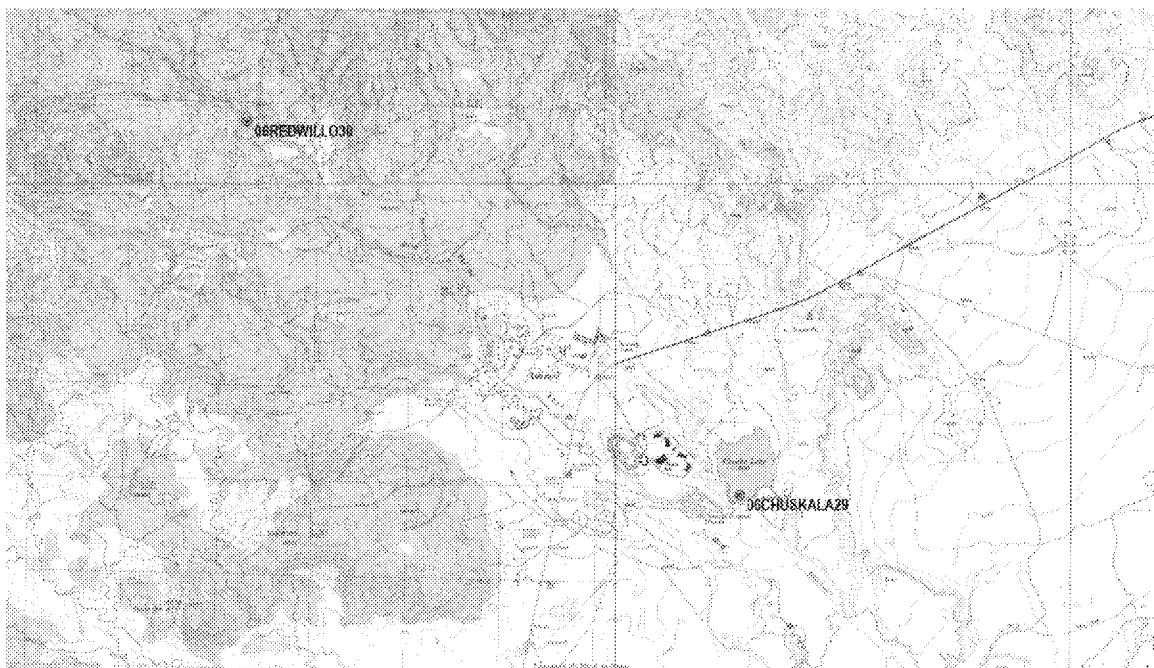
April 1, 2003



August 9, 2001



May 13, 2008

Map 3.14 – Berland Lake Sample Site at 8874 feet elevation.**Map 3.15 – Red Willow Wash and Chuska Lake Sample Sites at elevations of 6933 and 6288 feet.**

Photographs of Sample Site 06REDWILLO30:

May 25, 2006



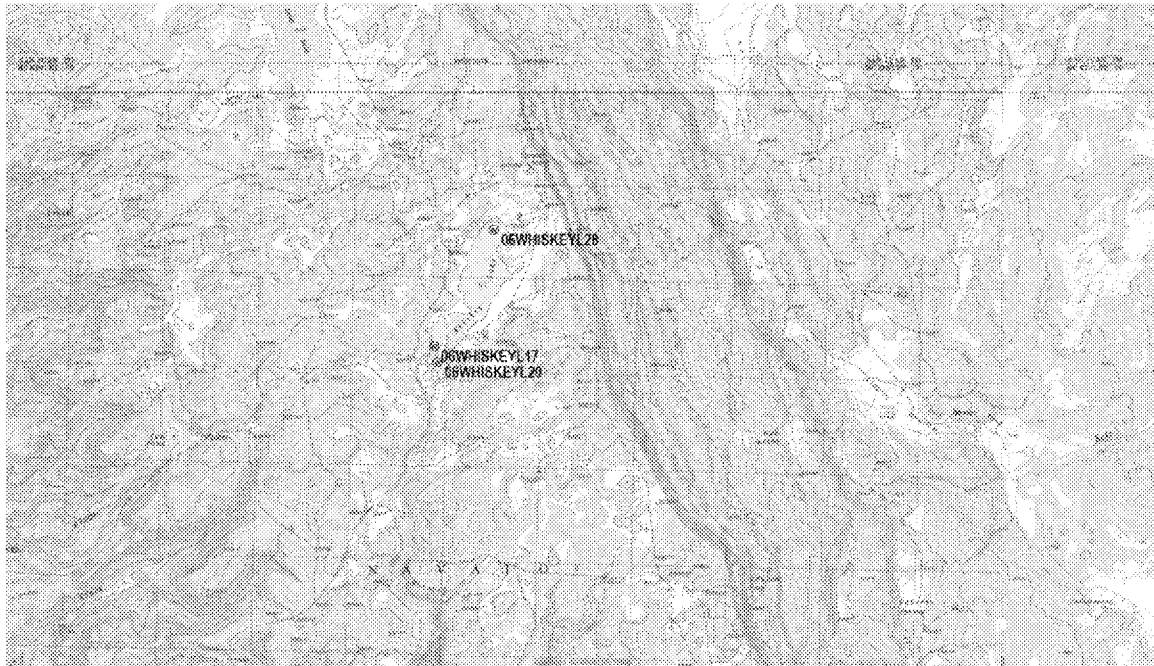
May 20, 2010

Photographs of Sample Site 06CHUSKALA29:

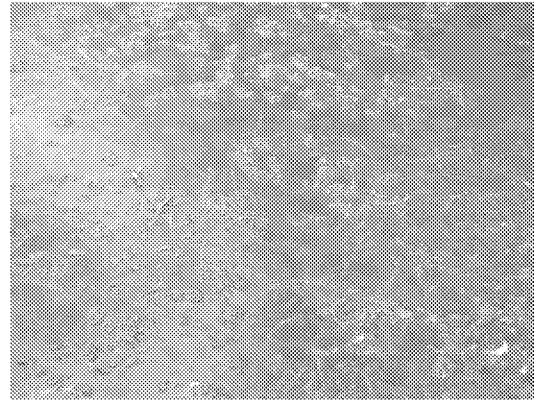
July 27, 2009



July 27, 2009

Map 3.16 – Whiskey Lake Sample Sites at 8900 feet elevation.**Photographs of Sample Site 06WHISKEYL20:**

August 4, 2004



August 4, 2004



September 9, 2004



August 29, 200

4.0 Chaco River Watershed Surface Water Quality Data Assessment

The following tables provide detailed information on each sample site. The sample site name used for sampling is provided along with the alias used to locate the sample site on the watershed maps in Section 2.0 and a location description. The total number of years sampled is provided along with years sampled during the assessment period. The assessment period is the consecutive time period where a minimum number of samples must be obtained in order to determine designated use support. In most instances it is a three year consecutive period where a minimum of five samples must be obtained. (Please refer to the NNEPA Impairment Guidance). Water quality data at each site was compared to the numeric standards in the 2007 NNSWQS. Uses designated for each water body in the 2007 NNSWQS are listed in each table. These uses are Domestic Water Supply (Dom), Primary Human Contact (PrHC), Secondary Human Contact (ScHC), Fish Consumption (FC), Aquatic & Wildlife Habitat (Acute and Chronic) (A&WHbt (A) and A&WHbt (C)), Agricultural Water Supply (AgWS), and Livestock Watering (LW). Exceedances of the numeric standard are provided for any analyte for both the individual analyte and for the analytes corresponding to each designated use. Also provided are the percentages of exceedances from the number of samples obtained. The letter “n” refers to the number of samples obtained.

In some instances sample site locations may not be located at a Water of the Navajo Nation such as a canal but has been given the designated uses associated with the nearest known surface water listed in the 2007 NNSWQS. In those instances the water quality data obtained is used to determine the geographic distribution within the watershed of the analytes sampled.

Analytes are listed in each table only if they have been found to have exceeded the numeric standard at any surface water sample site within the watershed. If, for example, aluminum is listed as an analyte at “Site X” but did not exceed the numeric standard at “Site X”, it is listed because it did exceed the numeric standard at another location within the watershed, “Site A”. The purpose of this is to try to understand the distribution of the analyte within the watershed.

The category of designated use support from the NNEPA Impairment Guidance may be found at the end of each table. Designated use support categories are determined, in part, by comparing the analytical result at each sample site to the 2007 NNSWQS. As mentioned in Section 1.0

revisions to the 2007 NNSWQS have been made and are contained within the draft 2015 NNSWQS. The draft 2015 NNSWQS contain new numeric standards and also new interpretations of how numeric standards support designated uses. Additionally the NNEPA Impairment Guidance is scheduled for revision as well to reflect the changes in the 2015 NNSWQS. Once the 2015 NNSWQS are approved and the NNEPA Impairment Guidance is updated, the designated use support category assigned to the water bodies in this section may change. The NNEPA WQP also anticipates being able to list surface waters as impaired once primacy is granted by USEPA for federal Clean Water Act Section 303(d).

To obtain the complete set of surface water quality analytical data from this watershed used in these tables please call 505-368-1037.

Site 06APSSEEP132

Site	Alias	Location
06APSSEEP132	06-32	Seep in Chaco River near APS ash ponds

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2008	1	2008	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	1	1	1	1
A&WHbt (C)	1	1	1	1
LW	1	1	1	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Beryllium (T)	0	1	0.0%	0	1	0.0%
Cadmium (T)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	0	1	0.0%	0	1	0.0%
Zinc (T)	0	1	0.0%	0	1	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	N	Percent
Lead (T)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	N	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	N	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	N	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Boron (D)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	0	1	0.0%	0	1	0.0%
Lead (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06APSTRIBX35

Site	Alias	Location
06APSTRIBX35	06-35	Chaco Trib below Morgan Lake blowdown

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2010	1	2010	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	1	1	1	1
A&WHbt (C)	2	1	2	1
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Beryllium (T)	0	1	0.0%	0	1	0.0%
Cadmium (T)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	0	1	0.0%	0	1	0.0%
Zinc (T)	0	1	0.0%	0	1	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	1	1	100.0%	1	1	100.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	0	1	0.0%	0	1	0.0%
Lead (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06BERLANDL31

Site	Alias	Location
06BERLANDL31	06-31	Berland Lake

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2006 – 2010	4	2008-2010	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	3	0	2	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	0	1	0.0%	0	1	0.0%
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	4	0.0%	0	3	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	4	0.0%	0	3	0.0%
Mercury (T)	0	4	0.0%	0	3	0.0%
Selenium (T)	0	4	0.0%	0	3	0.0%
Zinc (D)	0	4	0.0%	0	3	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	4	0.0%	0	3	0.0%
Cyanide (T)	0	4	0.0%	0	3	0.0%
Lead (D)	0	4	0.0%	0	3	0.0%
Mercury (T)	3	4	75.0%	2	3	66.7%
Selenium (T)	0	4	0.0%	0	3	0.0%
Zinc (D)	0	4	0.0%	0	3	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	0	4	0.0%	0	3	0.0%
Cyanide (T)	0	4	0.0%	0	3	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	4	0.0%	0	3	0.0%
Vanadium (D)	0	4	0.0%	0	3	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06CAPTAINT02

Site	Alias	Location
06CAPTAINT02	06-02	Captain Tom Wash @ power lines

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
1996 – 2000	6	1999-2000	2

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
AgWS	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	2	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	2	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	2	0.0%	0	1	0.0%
Cyanide (T)	--	--	--	--	--	--
Lead (D)	0	2	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	2	0.0%	0	1	0.0%

Analyte	Agricultural Water Supply					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (D)	--	--	--	--	--	--
Vanadium (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	0	2	0.0%	0	1	0.0%
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- **Was the minimum number of samples to determine designated use support obtained during the assessment period? No.**
- **Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.**
- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**

Site 06CAPTAINT12

Site	Alias	Location
06CAPTAINT12	06-12	Captain Tom Wash @ gage

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001 – 2011	11	2010-2011	5

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	2	1	2	1
ScHC	3	1	3	1
A&WHbt (A)	4	1	4	1
A&WHbt (C)	11	1	9	1
AgWS	2	1	2	1
LW	3	3	2	2

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	8	0.0%	0	5	0.0%
Beryllium (T)	0	8	0.0%	0	5	0.0%
Cadmium (T)	0	8	0.0%	0	5	0.0%
Mercury (T)	2	11	18.2%	2	5	40.0%
Thallium (T)	0	8	0.0%	0	5	0.0%
Zinc (T)	0	8	0.0%	0	5	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	3	8	37.5%	3	5	60.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	4	8	50.0%	4	5	80.0%
Copper (D)	0	11	0.0%	0	5	0.0%
Mercury (T)	0	11	0.0%	0	5	0.0%
Selenium (T)	0	11	0.0%	0	5	0.0%
Zinc (D)	0	11	0.0%	0	5	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	7	8	87.5%	5	5	100.0%
Copper (D)	0	11	0.0%	0	5	0.0%
Cyanide (T)	0	11	0.0%	0	5	0.0%
Lead (D)	0	11	0.0%	0	5	0.0%
Mercury (T)	4	11	36.4%	4	5	80.0%
Selenium (T)	0	11	0.0%	0	5	0.0%
Zinc (D)	0	11	0.0%	0	5	0.0%

Analyte	Agricultural Water Supply					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (D)	0	9	0.0%	0	5	0.0%
Vanadium (D)	2	11	18.2%	2	5	40.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	8	0.0%	0	5	0.0%
Boron (D)	0	9	0.0%	0	5	0.0%
Copper (D)	0	11	0.0%	0	5	0.0%
Cyanide (T)	0	11	0.0%	0	5	0.0%
Gross alpha (Adj)	1	8	12.5%	1	5	20.0%
Lead (T)	1	8	12.5%	1	5	20.0%
Selenium (T)	0	11	0.0%	0	5	0.0%
Vanadium (D)	1	11	9.1%	0	5	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? Yes.
- Category of Designated Use Support: Category 5b – At least one designated use is not supported and a review of the designated use and/or water quality standards will be conducted to determine if appropriate for the surface water body.
- Category 5b is specific to only the analytes listed above with 2 or more exceedances during the assessment period for the individual designated use. For analytes with 1 or less exceedances during the assessment period the designated use is supported for those analytes. (Note that not all analytes with 0 exceedances are listed in these tables but are contained in the complete analytical data set.)

Site 06CAPTAINT18

Site	Alias	Location
06CAPTAINT18	06-18	Captain Tom Wash 1/2 mile d/s fr gage

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001	1	2001	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
AgWS	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Agricultural Water Supply					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (D)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.

- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**

Site 06CAPTAINT34

Site	Alias	Location
06CAPTAINT34	06-34	Captain Tom Wash

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2010	1	2010	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
SchC	0	0	0	0
A&WHbt (A)	1	1	1	1
A&WHbt (C)	2	1	2	1
AgWS	1	1	1	1
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Beryllium (T)	0	1	0.0%	0	1	0.0%
Cadmium (T)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	0	1	0.0%	0	1	0.0%
Zinc (T)	0	1	0.0%	0	1	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	1	1	100.0%	1	1	100.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Agricultural Water Supply					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (D)	1	1	100.0%	1	1	100.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	0	1	0.0%	0	1	0.0%
Lead (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.

- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**

Site 06CHACORIV01

Site	Alias	Location
06CHACORIV01	06-01	Chaco River @ N36

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
1998 - 2011	15	2009-2011	6

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	19	6	12	6
SchC	7	1	4	1
A&WHbt (A)	14	3	9	3
A&WHbt (C)	27	4	15	3
LW	7	1	4	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	2	11	18.2%	2	6	33.3%
Beryllium (T)	1	11	9.1%	1	6	16.7%
Cadmium (T)	2	11	18.2%	1	6	16.7%
Mercury (T)	8	15	53.3%	3	6	50.0%
Thallium (T)	5	11	45.5%	4	6	66.7%
Zinc (T)	1	11	9.1%	1	6	9.1%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	7	11	63.6%	4	6	66.7%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	10	10	100.0%	6	6	100.0%
Copper (D)	2	13	15.4%	2	6	33.3%
Mercury (T)	2	15	13.3%	1	6	16.7%
Selenium (T)	0	15	0.0%	0	6	0.0%
Zinc (D)	0	13	0.0%	0	6	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	10	10	100.0%	6	6	100.0%
Copper (D)	2	13	15.4%	2	6	33.3%
Cyanide (T)	0	13	0.0%	0	6	0.0%
Lead (D)	1	13	7.7%	1	6	16.7%
Mercury (T)	12	15	80.0%	6	6	100.0%
Selenium (T)	2	15	13.3%	0	6	0.0%
Zinc (D)	0	13	0.0%	0	6	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	11	0.0%	0	6	0.0%
Boron (D)	0	11	0.0%	0	6	0.0%
Copper (D)	0	13	0.0%	0	6	0.0%
Cyanide (T)	0	14	0.0%	0	6	0.0%
Gross alpha (Adj)	0	9	0.0%	0	5	0.0%
Lead (T)	7	11	63.6%	4	6	66.7%
Selenium (T)	0	15	0.0%	0	6	0.0%
Vanadium (D)	0	13	0.0%	0	6	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? Yes.
- Category of Designated Use Support: Category 5b – At least one designated use is not supported and a review of the designated use and/or water quality standards will be conducted to determine if appropriate for the surface water body.

- **Category 5b is specific to only the analytes listed above with 2 or more exceedances during the assessment period for the individual designated use. For analytes with 1 or less exceedances during the assessment period the designated use is supported for those analytes. (Note that not all analytes with 0 exceedances are listed in these tables but are contained in the complete analytical data set.)**

Site 06CHACORIV03

Site	Alias	Location
06CHACORIV03	06-03	Chaco River 1/2 mile u/s fr N36

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
1999	2	1999	2

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	1	1	1	1
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	1	0	1	0
LW	1	1	1	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	1	2	50.0%	1	2	50.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	2	0.0%	0	2	0.0%
Mercury (T)	0	2	0.0%	0	2	0.0%
Selenium (T)	0	2	0.0%	0	2	0.0%
Zinc (D)	0	2	0.0%	0	2	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	2	0.0%	0	2	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	2	0.0%	0	2	0.0%
Mercury (T)	1	2	50.0%	1	2	50.0%
Selenium (T)	0	2	0.0%	0	2	0.0%
Zinc (D)	0	2	0.0%	0	2	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	1	1	100.0%	1	1	100.0%
Copper (D)	0	2	0.0%	0	2	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	2	0.0%	0	2	0.0%
Vanadium (D)	0	2	0.0%	0	2	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06CHACORIV04

Site	Alias	Location
06CHACORIV04	06-04	Chaco River near mouth

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2015	2	2015	2

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	5	4	5	4
PrHC	4	2	4	2
SchC	2	1	2	1
A&WHbt (A)	1	1	1	1
A&WHbt (C)	4	1	4	1
LW	5	4	5	4

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	1	2	50.0%	1	2	50.0%
Beryllium (T)	1	2	50.0%	1	2	50.0%
Cadmium (T)	0	2	0.0%	0	2	0.0%
Mercury (T)	1	2	50.0%	1	2	50.0%
Thallium (T)	2	2	100.0%	2	2	100.0%
Zinc (T)	0	2	0.0%	0	2	0.0%

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	2	2	100.0%	2	2	100.0%
Lead (T)	2	2	100.0%	2	2	100.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	2	2	100.0%	2	2	100.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	2	0.0%	0	2	0.0%
Mercury (T)	0	2	0.0%	0	2	0.0%
Selenium (T)	1	2	50.0%	1	2	50.0%
Zinc (D)	0	2	0.0%	0	2	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	2	0.0%	0	2	0.0%
Cyanide (T)	0	2	0.0%	0	2	0.0%
Lead (D)	0	2	0.0%	0	2	0.0%
Mercury (T)	2	2	100.0%	2	2	100.0%
Selenium (T)	2	2	100.0%	2	2	100.0%
Zinc (D)	0	2	0.0%	0	2	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	1	2	50.0%	1	2	50.0%
Boron (D)	0	2	0.0%	0	2	0.0%
Copper (D)	0	2	0.0%	0	2	0.0%
Cyanide (T)	0	2	0.0%	0	2	0.0%
Gross alpha (Adj)	2	2	100.0%	2	2	100.0%
Lead (T)	1	2	50.0%	1	2	50.0%
Selenium (T)	1	2	50.0%	1	2	50.0%
Vanadium (D)	0	2	0.0%	0	2	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06CHACORIV05

Site	Alias	Location
06CHACORIV05	06-05	Chaco River @ APS

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2000	1	2000	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	1	1	1	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	0	1	0.0%	0	1	0.0%
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06CHACORIV06

Site	Alias	Location
06CHACORIV06	06-06	Chaco River nr N5

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2010 - 2011	5	2010-2011	5

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	7	4	7	4
ScHC	4	1	4	1
A&WHbt (A)	7	2	7	2
A&WHbt (C)	14	3	14	3
LW	1	1	1	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	1	5	20.0%	1	5	20.0%
Beryllium (T)	0	5	0.0%	0	5	0.0%
Cadmium (T)	1	5	20.0%	1	5	20.0%
Mercury (T)	4	5	80.0%	4	5	80.0%
Thallium (T)	1	5	20.0%	1	5	20.0%
Zinc (T)	0	5	0.0%	0	5	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	4	5	80.0%	4	5	80.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	5	5	100.0%	5	5	100.0%
Copper (D)	2	5	40.0%	2	5	40.0%
Mercury (T)	0	5	0.0%	0	5	0.0%
Selenium (T)	0	5	0.0%	0	5	0.0%
Zinc (D)	0	5	0.0%	0	5	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	5	5	100.0%	5	5	100.0%
Copper (D)	2	5	40.0%	2	5	40.0%
Cyanide (T)	0	5	0.0%	0	5	0.0%
Lead (D)	2	5	40.0%	2	5	40.0%
Mercury (T)	5	5	100.0%	5	5	100.0%
Selenium (T)	0	5	0.0%	0	5	0.0%
Zinc (D)	0	5	0.0%	0	5	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	5	0.0%	0	5	0.0%
Boron (D)	0	5	0.0%	0	5	0.0%
Copper (D)	0	5	0.0%	0	5	0.0%
Cyanide (T)	0	5	0.0%	0	5	0.0%
Gross alpha (Adj)	0	5	0.0%	0	5	0.0%
Lead (T)	1	5	20.0%	1	5	20.0%
Selenium (T)	0	5	0.0%	0	5	0.0%
Vanadium (D)	0	5	0.0%	0	5	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? Yes.
- Category of Designated Use Support: Category 5b – At least one designated use is not supported and a review of the designated use and/or water quality standards will be conducted to determine if appropriate for the surface water body.
- Category 5b is specific to only the analytes listed above with 2 or more exceedances during the assessment period for the individual designated use. For analytes with 1 or less exceedances during the assessment period the designated use is supported for those analytes. (Note that not all analytes

with 0 exceedances are listed in these tables but are contained in the complete analytical data set.)

Site 06CHACORIV07

Site	Alias	Location
06CHACORIV07	06-07	Chaco River nr Hwy 371

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001 - 2011	4	2010-2011	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	5	2	4	2
ScHC	3	1	3	1
A&WHbt (A)	6	2	6	2
A&WHbt (C)	12	3	11	3
LW	3	1	3	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	3	0.0%	0	3	0.0%
Beryllium (T)	0	3	0.0%	0	3	0.0%
Cadmium (T)	0	3	0.0%	0	3	0.0%
Mercury (T)	4	4	100.0%	3	3	100.0%
Thallium (T)	1	3	33.3%	1	3	33.3%
Zinc (T)	0	3	0.0%	0	3	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	3	3	100.0%	3	3	100.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	3	3	100.0%	3	3	100.0%
Copper (D)	3	4	75.0%	3	3	100.0%
Mercury (T)	0	4	0.0%	0	3	0.0%
Selenium (T)	0	4	0.0%	0	3	0.0%
Zinc (D)	0	4	0.0%	0	3	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	3	3	100.0%	3	3	100.0%
Copper (D)	3	4	75.0%	3	3	100.0%
Cyanide (T)	0	4	0.0%	0	3	0.0%
Lead (D)	2	4	50.0%	2	3	66.7%
Mercury (T)	4	4	100.0%	3	3	100.0%
Selenium (T)	0	4	0.0%	0	3	0.0%
Zinc (D)	0	4	0.0%	0	3	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	3	0.0%	0	3	0.0%
Boron (D)	0	4	0.0%	0	3	0.0%
Copper (D)	0	4	0.0%	0	3	0.0%
Cyanide (T)	0	4	0.0%	0	3	0.0%
Gross alpha (Adj)	0	3	0.0%	0	3	0.0%
Lead (T)	3	3	100.0%	3	3	100.0%
Selenium (T)	0	4	0.0%	0	3	0.0%
Vanadium (D)	0	4	0.0%	0	3	0.0%

- **Was the minimum number of samples to determine designated use support obtained during the assessment period? No.**
- **Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.**
- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**

Site 06CHACORIV33

Site	Alias	Location
06CHACORIV33	06-33	Chaco River

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2010 - 2011	5	2010-2011	5

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	9	4	9	4
ScHC	4	1	4	1
A&WHbt (A)	7	3	7	3
A&WHbt (C)	14	5	14	5
LW	7	3	7	3

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	1	5	20.0%	1	5	20.0%
Beryllium (T)	0	5	0.0%	0	5	0.0%
Cadmium (T)	1	5	20.0%	1	5	20.0%
Mercury (T)	4	5	80.0%	4	5	80.0%
Thallium (T)	3	5	60.0%	3	5	60.0%
Zinc (T)	0	5	0.0%	0	5	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	4	5	80.0%	4	5	80.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	5	5	100.0%	5	5	100.0%
Copper (D)	1	5	20.0%	1	5	20.0%
Mercury (T)	0	5	0.0%	0	5	0.0%
Selenium (T)	0	5	0.0%	0	5	0.0%
Zinc (D)	1	5	20.0%	1	5	20.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	5	5	100.0%	5	5	100.0%
Copper (D)	1	5	20.0%	1	5	20.0%
Cyanide (T)	0	5	0.0%	0	5	0.0%
Lead (D)	1	5	20.0%	1	5	20.0%
Mercury (T)	5	5	100.0%	5	5	100.0%
Selenium (T)	1	5	20.0%	1	5	20.0%
Zinc (D)	1	5	20.0%	1	5	20.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	5	0.0%	0	5	0.0%
Boron (D)	0	5	0.0%	0	5	0.0%
Copper (D)	1	5	20.0%	1	5	20.0%
Cyanide (T)	0	5	0.0%	0	5	0.0%
Gross alpha (Adj)	0	5	0.0%	0	5	0.0%
Lead (T)	4	5	80.0%	4	5	80.0%
Selenium (T)	0	5	0.0%	0	5	0.0%
Vanadium (D)	2	5	40.0%	2	5	40.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? Yes.
- Category of Designated Use Support: Category 5b – At least one designated use is not supported and a review of the designated use and/or water quality standards will be conducted to determine if appropriate for the surface water body.
- Category 5b is specific to only the analytes listed above with 2 or more exceedances during the assessment period for the individual designated use. For analytes with 1 or less exceedances during the assessment period the designated use is supported for those analytes. (Note that not all analytes

with 0 exceedances are listed in these tables but are contained in the complete analytical data set.)

Site 06CHINDEWA08

Site	Alias	Location
06CHINDEWA08	06-08	Chinde Wash u/s fr BHP Navajo Mine

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001 - 2011	7	2010-2011	5

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
SchC	0	0	0	0
A&WHbt (A)	1	1	1	1
A&WHbt (C)	12	2	12	2
LW	1	1	1	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	5	0.0%	0	5	0.0%
Beryllium (T)	0	5	0.0%	0	5	0.0%
Cadmium (T)	0	5	0.0%	0	5	0.0%
Mercury (T)	0	7	0.0%	0	5	0.0%
Thallium (T)	0	5	0.0%	0	5	0.0%
Zinc (T)	0	5	0.0%	0	5	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	0	5	0.0%	0	5	0.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	5	20.0%	1	5	20.0%
Copper (D)	0	7	0.0%	0	5	0.0%
Mercury (T)	0	7	0.0%	0	5	0.0%
Selenium (T)	0	7	0.0%	0	5	0.0%
Zinc (D)	0	7	0.0%	0	5	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	5	5	100.0%	5	5	100.0%
Copper (D)	0	7	0.0%	0	5	0.0%
Cyanide (T)	1	7	14.3%	1	5	20.0%
Lead (D)	0	7	0.0%	0	5	0.0%
Mercury (T)	5	7	71.4%	5	5	100.0%
Selenium (T)	1	7	14.3%	1	5	20.0%
Zinc (D)	0	7	0.0%	0	5	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	5	0.0%	0	5	0.0%
Boron (D)	0	7	0.0%	0	5	0.0%
Copper (D)	0	7	0.0%	0	5	0.0%
Cyanide (T)	1	7	14.3%	1	5	20.0%
Gross alpha (Adj)	0	5	0.0%	0	5	0.0%
Lead (T)	0	5	0.0%	0	5	0.0%
Selenium (T)	0	7	0.0%	0	5	0.0%
Vanadium (D)	0	7	0.0%	0	5	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? Yes.
- Category of Designated Use Support: Category 5b – At least one designated use is not supported and a review of the designated use and/or water quality standards will be conducted to determine if appropriate for the surface water body.
- Category 5b is specific to only the analytes listed above with 2 or more exceedances during the assessment period for the individual designated use. For analytes with 1 or less exceedances during the assessment period the designated use is supported for those analytes. (Note that not all analytes

with 0 exceedances are listed in these tables but are contained in the complete analytical data set.)

Site 06CHINDEWA15

Site	Alias	Location
06CHINDEWA15	06-15	Chinde Wash d/s fr BHP Navajo Mine

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001 - 2011	12	2009-2011	8

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	5	1	5	1
A&WHbt (C)	16	1	16	1
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	9	0.0%	0	5	0.0%
Beryllium (T)	0	9	0.0%	0	5	0.0%
Cadmium (T)	0	9	0.0%	0	5	0.0%
Mercury (T)	0	12	0.0%	0	5	0.0%
Thallium (T)	0	9	0.0%	0	5	0.0%
Zinc (T)	0	9	0.0%	0	5	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	0	9	0.0%	0	8	0.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	5	9	55.6%	5	8	62.5%
Copper (D)	0	12	0.0%	0	8	0.0%
Mercury (T)	0	12	0.0%	0	8	0.0%
Selenium (T)	0	12	0.0%	0	8	0.0%
Zinc (D)	0	12	0.0%	0	8	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	8	9	88.9%	8	8	100.0%
Copper (D)	0	12	0.0%	0	8	0.0%
Cyanide (T)	0	12	0.0%	0	8	0.0%
Lead (D)	0	12	0.0%	0	8	0.0%
Mercury (T)	8	12	66.7%	8	8	100.0%
Selenium (T)	0	12	0.0%	0	8	0.0%
Zinc (D)	0	12	0.0%	0	8	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	9	0.0%	0	8	0.0%
Boron (D)	0	11	0.0%	0	8	0.0%
Copper (D)	0	12	0.0%	0	8	0.0%
Cyanide (T)	0	12	0.0%	0	8	0.0%
Gross alpha (Adj)	0	9	0.0%	0	8	0.0%
Lead (T)	0	9	0.0%	0	8	0.0%
Selenium (T)	0	12	0.0%	0	8	0.0%
Vanadium (D)	0	12	0.0%	0	8	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? Yes.
- Category of Designated Use Support: Category 5b – At least one designated use is not supported and a review of the designated use and/or water quality standards will be conducted to determine if appropriate for the surface water body.
- Category 5b is specific to only the analytes listed above with 2 or more exceedances during the assessment period for the individual designated use. For analytes with 1 or less exceedances during the assessment period the designated use is supported for those analytes. (Note that not all analytes with 0 exceedances are listed in these tables but are contained in the complete analytical data set.)

Site 06CHUSKALA29

Site	Alias	Location
06CHUSKALA29	06-29	Chuska Lake

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2005 - 2010	5	2008-2010	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	1	1	1	1
PrHC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	4	0	3	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	1	5	20.0%	1	3	33.3%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	5	0.0%	0	3	0.0%
Mercury (T)	0	5	0.0%	0	3	0.0%
Selenium (T)	0	5	0.0%	0	3	0.0%
Zinc (D)	0	5	0.0%	0	3	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	5	0.0%	0	3	0.0%
Cyanide (T)	0	4	0.0%	0	3	0.0%
Lead (D)	0	5	0.0%	0	3	0.0%
Mercury (T)	4	5	80.0%	3	3	100.0%
Selenium (T)	0	5	0.0%	0	3	0.0%
Zinc (D)	0	5	0.0%	0	3	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	0	5	0.0%	0	3	0.0%
Cyanide (T)	0	4	0.0%	0	3	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	5	0.0%	0	3	0.0%
Vanadium (D)	0	4	0.0%	0	3	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06DEADMANS27

Site	Alias	Location
06DEADMANS27	06-27	Dead Man's Wash

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2002	2	2002	2

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	0	1	0.0%	0	1	0.0%
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06HUNTERTR10

Site	Alias	Location
06HUNTERTR10	06-10	Hunter Wash tributary

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001	1	2001	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- **Was the minimum number of samples to determine designated use support obtained during the assessment period? No.**
- **Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.**
- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**

Site 06INDIANCR19

Site	Alias	Location
06INDIANCR19	06-19	Indian Creek

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001	1	2001	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06MORGANLA21

Site	Alias	Location
06MORGANLA21	06-21	Morgan Lake west end

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2002 - 2010	7	2008-2010	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
SchC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	1	0	1	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	7	0.0%	0	3	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	7	0.0%	0	3	0.0%
Mercury (T)	0	7	0.0%	0	3	0.0%
Selenium (T)	0	7	0.0%	0	3	0.0%
Zinc (D)	0	7	0.0%	0	3	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	7	0.0%	0	3	0.0%
Cyanide (T)	0	6	0.0%	0	3	0.0%
Lead (D)	0	7	0.0%	0	3	0.0%
Mercury (T)	1	7	14.3%	1	3	33.3%
Selenium (T)	0	7	0.0%	0	3	0.0%
Zinc (D)	0	7	0.0%	0	3	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	7	0.0%	0	3	0.0%
Cyanide (T)	0	5	0.0%	0	3	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	7	0.0%	0	3	0.0%
Vanadium (D)	0	4	0.0%	0	3	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

- **Additional Morgan Lake surface water quality assessment information may be found in the July 2006 fish tissue study entitled: "Methylmercury and Other Environmental Contaminants in Water and Fish Collected from Four Recreational Fishing Lakes on the Navajo Nation, 2004".**

Site 06MORGANLA22

Site	Alias	Location
06MORGANLA22	06-22	Morgan Lake east end

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2002 - 2010	7	2008-2010	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	2	1	2	1
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	7	0.0%	0	3	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	7	0.0%	0	3	0.0%
Mercury (T)	0	7	0.0%	0	3	0.0%
Selenium (T)	0	7	0.0%	0	3	0.0%
Zinc (D)	0	7	0.0%	0	3	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	7	0.0%	0	3	0.0%
Cyanide (T)	0	6	0.0%	0	3	0.0%
Lead (D)	0	7	0.0%	0	3	0.0%
Mercury (T)	1	7	14.3%	1	3	33.3%
Selenium (T)	1	7	14.3%	1	3	33.3%
Zinc (D)	0	7	0.0%	0	3	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	7	0.0%	0	3	0.0%
Cyanide (T)	0	6	0.0%	0	3	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	7	0.0%	0	3	0.0%
Vanadium (D)	0	5	0.0%	0	3	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.

- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**
- **Additional Morgan Lake surface water quality assessment information may be found in the July 2006 fish tissue study entitled: "Methylmercury and Other Environmental Contaminants in Water and Fish Collected from Four Recreational Fishing Lakes on the Navajo Nation, 2004".**

Site 06MORGANLA23

Site	Alias	Location
06MORGANLA23	06-23	Morgan Lake southeast shore

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2002 - 2005	4	2003-2005	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--
Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Lead (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Vanadium (D)	--	--	--	--	--	--

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.
- Additional Morgan Lake surface water quality assessment information may be found in the July 2006 fish tissue study entitled: "Methylmercury and Other Environmental Contaminants in Water and Fish Collected from Four Recreational Fishing Lakes on the Navajo Nation, 2004".

Site 06MORGANLA24

Site	Alias	Location
06MORGANLA24	06-24	Morgan Lake northeast shore

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2002 - 2005	4	2003-2005	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
SchC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Lead (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Vanadium (D)	--	--	--	--	--	--

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.
- Additional Morgan Lake surface water quality assessment information may be found in the July 2006 fish tissue study entitled: "Methylmercury and Other Environmental Contaminants in Water and Fish Collected from Four Recreational Fishing Lakes on the Navajo Nation, 2004".

Site 06MORGANLA25

Site	Alias	Location
06MORGANLA25	06-25	Morgan Lake northwest shore

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2002 - 2005	4	2003-2005	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Lead (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Vanadium (D)	--	--	--	--	--	--

- **Was the minimum number of samples to determine designated use support obtained during the assessment period? No.**
- **Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.**
- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**
- **Additional Morgan Lake surface water quality assessment information may be found in the July 2006 fish tissue study entitled: "Methylmercury and Other Environmental Contaminants in Water and Fish Collected from Four Recreational Fishing Lakes on the Navajo Nation, 2004".**

Site 06PINABETE36

Site	Alias	Location
06PINABETE36	06-36	Pinabete Arroyo

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2010	1	2010	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	4	4	4	4
ScHC	1	1	1	1
A&WHbt (A)	2	2	2	2
A&WHbt (C)	2	1	2	1
LW	1	1	1	1

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	1	1	100.0%	1	1	100.0%
Beryllium (T)	1	1	100.0%	1	1	100.0%
Cadmium (T)	0	1	0.0%	0	1	0.0%
Mercury (T)	1	1	100.0%	1	1	100.0%
Thallium (T)	1	1	100.0%	1	1	100.0%
Zinc (T)	0	1	0.0%	0	1	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	1	1	100.0%	1	1	100.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	1	1	100.0%	1	1	100.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	1	1	100.0%	1	1	100.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	0	1	0.0%	0	1	0.0%
Lead (T)	1	1	100.0%	1	1	100.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? **No.**
- **Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.**
- **Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.**

Site 06REDWILLO30

Site	Alias	Location
06REDWILLO30	06-30	Red Willow Wash

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2006 - 2010	2	2010	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	1	1	1	1
A&WHbt (C)	2	1	2	1
AgWS	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	2	0.0%	0	1	0.0%
Beryllium (T)	0	2	0.0%	0	1	0.0%
Cadmium (T)	0	2	0.0%	0	1	0.0%
Mercury (T)	0	2	0.0%	0	1	0.0%
Thallium (T)	0	2	0.0%	0	1	0.0%
Zinc (T)	0	2	0.0%	0	1	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	0	2	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	2	0.0%	0	1	0.0%
Mercury (T)	0	2	0.0%	0	1	0.0%
Selenium (T)	0	2	0.0%	0	1	0.0%
Zinc (D)	0	2	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	1	1	100.0%	1	1	100.0%
Copper (D)	0	2	0.0%	0	1	0.0%
Cyanide (T)	0	2	0.0%	0	1	0.0%
Lead (D)	0	2	0.0%	0	1	0.0%
Mercury (T)	1	2	50.0%	1	1	100.0%
Selenium (T)	0	2	0.0%	0	1	0.0%
Zinc (D)	0	2	0.0%	0	1	0.0%

Analyte	Agricultural Water Supply					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (D)	0	2	0.0%	0	1	0.0%
Vanadium (D)	0	2	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	2	0.0%	0	1	0.0%
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	2	0.0%	0	1	0.0%
Cyanide (T)	0	2	0.0%	0	1	0.0%
Gross alpha (Adj)	0	1	0.0%	0	1	0.0%
Lead (T)	0	2	0.0%	0	1	0.0%
Selenium (T)	0	2	0.0%	0	1	0.0%
Vanadium (D)	0	2	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06SANOSTEE09

Site	Alias	Location
06SANOSTEE09	06-09	Sanostee Wash nr Sanostee

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
1997 - 1999	2	1997-1999	2

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
AgWS	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	--	--	--	--	--	--
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Agricultural Water Supply					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (D)	--	--	--	--	--	--
Vanadium (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06SANOSTEE16

Site	Alias	Location
06SANOSTEE16	06-16	Sanostee Wash nr N5013

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001 - 2011	12	2009-2011	5

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	1	1	1	1
A&WHbt (A)	7	1	4	1
A&WHbt (C)	11	2	6	1
AgWS	0	0	0	0
LW	2	2	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	8	0.0%	0	5	0.0%
Beryllium (T)	0	8	0.0%	0	5	0.0%
Cadmium (T)	0	8	0.0%	0	5	0.0%
Mercury (T)	0	12	0.0%	0	5	0.0%
Thallium (T)	0	8	0.0%	0	5	0.0%
Zinc (T)	0	8	0.0%	0	5	0.0%

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	1	8	12.5%	1	5	20.0%

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	7	8	87.5%	4	5	80.0%
Copper (D)	0	12	0.0%	0	5	0.0%
Mercury (T)	0	12	0.0%	0	5	0.0%
Selenium (T)	0	12	0.0%	0	5	0.0%
Zinc (D)	0	12	0.0%	0	5	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	7	8	87.5%	4	5	80.0%
Copper (D)	0	12	0.0%	0	5	0.0%
Cyanide (T)	1	12	8.3%	0	5	0.0%
Lead (D)	0	12	0.0%	0	8	0.0%
Mercury (T)	2	12	16.7%	2	5	40.0%
Selenium (T)	1	12	8.3%	0	5	0.0%
Zinc (D)	0	12	0.0%	0	5	0.0%

Analyte	Agricultural Water Supply					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (D)	0	10	0.0%	0	5	0.0%
Vanadium (D)	0	12	0.0%	0	5	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	8	0.0%	0	5	0.0%
Boron (D)	0	10	0.0%	0	5	0.0%
Copper (D)	0	12	0.0%	0	5	0.0%
Cyanide (T)	1	12	8.3%	0	5	0.0%
Gross alpha (Adj)	1	9	11.1%	0	4	0.0%
Lead (T)	0	8	0.0%	0	5	0.0%
Selenium (T)	0	12	0.0%	0	5	0.0%
Vanadium (D)	0	12	0.0%	0	5	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? Yes.
- Category of Designated Use Support: Category 5b – At least one designated use is not supported and a review of the designated use and/or water quality standards will be conducted to determine if appropriate for the surface water body.
- Category 5b is specific to only the analytes listed above with 2 or more exceedances during the assessment period for the individual designated use. For analytes with 1 or less exceedances during the assessment period the designated use is supported for those analytes. (Note that not all analytes with 0 exceedances are listed in these tables but are contained in the complete analytical data set.)

Site 06TOADLENA13

Site	Alias	Location
06TOADLENA13	06-13	Toadlena Hatchery

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
1997	1	1997	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Beryllium (T)	0	1	0.0%	0	1	0.0%
Cadmium (T)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	0	1	0.0%	0	1	0.0%
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	--	--	--	--	--	--

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	0	1	0.0%	0	1	0.0%
Boron (D)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	--	--	--	--	--	--

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06TOADLENA26

Site	Alias	Location
06TOADLENA26	06-26	Toadlena Hatchery spring box

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
1998	1	1998	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Lead (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Vanadium (D)	--	--	--	--	--	--

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06TOCITOWA11

Site	Alias	Location
06TOCITOWA11	06-11	Tocito Wash

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001	1	2001	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	0	1	0.0%	0	1	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	0	1	0.0%	0	1	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06WHISKEYL17

Site	Alias	Location
06WHISKEYL17	06-17	Whiskey Lake west shore

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001 - 2005	4	2004-2005	2

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
ScHC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Lead (D)	--	--	--	--	--	--
Mercury (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Zinc (D)	--	--	--	--	--	--

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	--	--	--	--	--	--
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	--	--	--	--	--	--
Vanadium (D)	--	--	--	--	--	--

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06WHISKEYL20

Site	Alias	Location
06WHISKEYL20	06-20	Whiskey Lake south end

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2001 - 2010	8	2008-2010	3

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
SchC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	1	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	7	0.0%	0	3	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	8	0.0%	0	3	0.0%
Mercury (T)	0	7	0.0%	0	3	0.0%
Selenium (T)	0	8	0.0%	0	3	0.0%
Zinc (D)	0	8	0.0%	0	3	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	8	0.0%	0	3	0.0%
Cyanide (T)	0	5	0.0%	0	3	0.0%
Lead (D)	0	8	0.0%	0	3	0.0%
Mercury (T)	1	7	14.3%	1	3	33.3%
Selenium (T)	0	8	0.0%	0	3	0.0%
Zinc (D)	0	8	0.0%	0	3	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	0	1	0.0%	0	1	0.0%
Copper (D)	0	8	0.0%	0	3	0.0%
Cyanide (T)	0	5	0.0%	0	3	0.0%
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	8	0.0%	0	3	0.0%
Vanadium (D)	0	5	0.0%	0	3	0.0%

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

Site 06WHISKEYL28

Site	Alias	Location
06WHISKEYL28	06-28	Whiskey Lake north end

Total		Assessment period	
Year(s) sampled	# of Sample Events	Year(s) sampled*	# of Sample Events*
2004	1	2004	1

*Note that not all analytes were necessarily sampled each sample event.

Designated Use	All samples		Assessment period	
	Total number of exceedances	Total analytes exceeded	Total number of exceedances	Total analytes exceeded
FC	0	0	0	0
PrHC	0	0	0	0
SchC	0	0	0	0
A&WHbt (A)	0	0	0	0
A&WHbt (C)	0	0	0	0
LW	0	0	0	0

Analyte	Fish Consumption					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Beryllium (T)	--	--	--	--	--	--
Cadmium (T)	--	--	--	--	--	--
Mercury (T)	0	1	0.0%	0	1	0.0%
Thallium (T)	--	--	--	--	--	--
Zinc (T)	--	--	--	--	--	--

Analyte	Primary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--

Analyte	Secondary Human Contact					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Lead (T)	--	--	--	--	--	--

Analyte	Aquatic and Wildlife Habitat (Acute)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Aquatic and Wildlife Habitat (Chronic)					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Aluminum (T)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	--	--	--	--	--	--
Lead (D)	0	1	0.0%	0	1	0.0%
Mercury (T)	0	1	0.0%	0	1	0.0%
Selenium (T)	0	1	0.0%	0	1	0.0%
Zinc (D)	0	1	0.0%	0	1	0.0%

Analyte	Livestock Watering					
	All samples			Assessment period		
	Exceedances	n	Percent	Exceedances	n	Percent
Arsenic (T)	--	--	--	--	--	--
Boron (D)	--	--	--	--	--	--
Copper (D)	0	1	0.0%	0	1	0.0%
Cyanide (T)	--	--	--	--	--	--
Gross alpha (Adj)	--	--	--	--	--	--
Lead (T)	--	--	--	--	--	--
Selenium (T)	0	1	0.0%	0	1	0.0%
Vanadium (D)	--	--	--	--	--	--

- Was the minimum number of samples to determine designated use support obtained during the assessment period? No.
- Category of Designated Use Support: Category 3 – There is insufficient data to determine if any designated use is supported.
- Recommendation is to use data obtained at this site to understand geographic distribution of listed analytes in the watershed.

5.0 References

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United States Geological Survey. 2013. National Hydrography Dataset.